SURVIVING

ASSASSINS OF THE CIA

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Fidel Castro once said, “If surviving assassination attempts were an Olympic event, I would win the gold medal."

Well, I believe I would win silver.

The autobiography of a rogue scientist dedicated to solving climate change, who has written new technologies that threaten United States national security.

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Preface

This is a difficult story to believe. I don't expect many book sales at first, but Margaret Mitchell was rejected 38 times before publishing Gone With the Wind, only $25 of Coca Cola was sold the first year at 5 cents a glass, and Colonel Sanders lived in his car while peddling his chicken recipe across the United States. In fact, Colonel Sanders received 1009 rejections before he received his first yes, leading to the birth of KFC.

Some people will call me a traitor of Canada for communicating with the enemy and encouraging BRICS nations to utilize my technology, but in the era of rapid climate change and nuclear weapons the true enemy cannot be defeated. The true enemy is war itself, even a war of petroleum economics. This is the story of a reformed gangster turned climate soldier, determined to prevent the catastrophic collapse of our environment while evading professional assassins equally determined to silence him.

Dedication

This book is dedicated to journalist Bilal Abdul Kareem and any other victim of the United States disposition matrix.

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Introduction

With modern autopsies, forensic science, and advanced technologies, executing the "perfect murder" has become more difficult than ever. Notwithstanding, the general public's misguided belief that modern forensics has become infallible is often used to a professional assassin's advantage, as television shows such as CSI use pseudo science to entertain viewers. Often, the general public and juries are persuaded by fiction, partially true forensic science, or advanced theoretical capabilities the police simply don't possess in practice.

For only one example, the use of phenolphthalein to detect blood in a bathtub drain looks impressive on video because the litmus paper or liquid drops turn from clear to bright pink. But what CSI fails to disclose is that phenolphthalein will turn pink from any substance with a pH higher than 7, not just blood hemoglobin. Although the Kastle-Meyer test is a real preliminary test for blood, many substances including baking soda and lye will also turn phenolphthalein pink. Draino is a common product for unclogging drains composed mostly of lye, thus the use of this test on a bathtub drain cannot be considered reliable.

I have spent a great deal of time speaking with my past neighbor Ken Heath, former coroner and undertaker. He lamented and often ridiculed the show CSI for determining the time of death, wherein his preferred method was measuring the evaporated water level displacement of a toilet, then comparing against temperature and humidity to determine rate of evaporation, or simply looking at the time and date of the purchase receipts of the deceased.

I am writing to you now from the psychiatric ward at Royal Columbian hospital in New Westminster, British Columbia, where I voluntarily admitted myself after returning from Shanghai, China, and the Russian embassy in Thailand. I was attempting to apply for asylum in both China and Russia, but neither country would allow me to even apply, yet alone reject my application.

I didn't admit myself to hospital because I believe I am crazy, but because Sun Tzu once wrote, "*The art of war teaches us to rely not on the likelihood of the enemy's not coming, but on our own readiness to receive that enemy; not on the chance of the enemy not attacking, but rather on the fact that we have made our position unassailable*."

In other words, it is unlikely a United States assassination team assigned will be able to get me in a psych ward while I am writing this book. These teams have been effective at hacking my computers and phones, but not effective at their numerous attempts of a "secret assassination".

There are many types and categories of assassinations. An assassination where the target is unaware is called "simple". An assassination where the target is aware is called "chase". An assassination where the target is guarded is termed "guarded".

A further type division is caused by the need to conceal the fact that the subject was actually the victim of assassination, rather than an accident or natural causes. If such concealment is desirable the operation will be called "secret", which is exactly the type that has been attempted against me. That being said, if they could kidnap me and take me to a black site, I believe that would be a viable option for them. Anything, other than me publishing this book.

An intelligence agency may not want it known that the person is murdered, because of public consequences that may lead to mass outrage, retaliation, protests, violence, or loss of faith in the murdering regime. Thus, secret assassinations often involve automobile accidents, falls from heights of at least 70 feet, arson, accelerating acute alcoholism, poisons and drugs that are undetectable in a standard toxicology test, and in my case bacterial and viral infection.

Coroners are going to look for puncture marks, wounds, needle tracks, or sample the stomach for signs of poisoning. As such, topical poisons are a favoured method used by the CIA. There are many poisons that will cause a heart attack or respiratory failure, but do not appear on a standard toxicology test. For only one example, hydrogen cyanide was used for many years to assassinate many people without being detected on a standard autopsy.

“Unless cyanide is found at the time of death on the mouth or nose, elevated cyanide concentration can only be found for up to two days under current toxicological testing”, according to Yu. A recent study in Yu’s laboratory found that a biomarker, ACTA (2-aminothiazoline-4-carboxylic acid), was found significantly increased in liver samples following a sub-lethal dose of cyanide.

But why would they need to do this to me? That’s complicated to answer, but is the foundation of this book.

Chapter 1 - My Troubled Childhood

I grew up in a middle class family in the greater Vancouver area of British Columbia, Canada. We were only a few minutes drive away from the United States border. My mother was a nursing instructor at Douglas College and my step-father was a lead forecaster for B.C. Tel, which is now known as Telus. My biological father was an automotive engineer and automotive instructor.

I was a gifted child intellectually, wherein my parents encouraged me to go to summer science camps and play with Radio Shack electronic kits rather than toys. In elementary school I was building electronic circuits on breadboards, helping excavate archaeological sites and finding artifacts, computer programming my Commodore 64 and operating a bulletin board service (BBS) on a 300 baud modem, playing with chemistry sets, and taking University of British Columbia (UBC) kids camp courses for spring break and summer months.

By 10 years old I was already getting myself into trouble with the law, including taking off from home and trying to reside at the local golf course in the woods, stealing money with another student from the teacher's purse and then running off to the Lougheed mall arcade, and at 11 years old I committed a break and enter on a neighbour while using a creek bed as an escape route. I also had some twisted young fascination with setting garbage bins on fire.

By 14 years of age I had my own computer repair business in my parents garage, with an oscilloscope, logic probes, soldering station, and many individual components. A neighbour helped me get a summer job working for Infosat Telecommunications, which involved assembling and soldering circuit boards for large analog satellite phones when the electronics were the size of a refrigerator, and the satellite dish was at least 6 feet in diameter.

By fifteen I had acquired a .223 Mini-14 assault rifle and a 12 gauge sawed off pump action shotgun through my growing young criminal network. By sixteen I was smuggling illegal fireworks such as bottle rockets and firecrackers from a native reserve in Washington State back

to home using a 1980 Monte Carlo that was given to me by my father. I believe the vendor named herself Bargain Betty. In the off season from fireworks, I often smuggled prohibited weapons such as switchblades, brass knuckles, tear gas, stun guns, and other interesting concealable weapons.

The smuggling operation was very profitable, wherein a single pack of bottle rockets would sell for a 500% markup. I would often spend evenings at the Delany's showroom lounge in Surrey, which of course was a strip club. Even though I was far underage, I started losing my hair at a young age and rarely was asked for identification.

By 17 years of age I let my friend Leon use my sawed off shotgun to commit an armed robbery on some poor fellow who was walking home in the dark, and I was using credit card numbers from a gas station I worked at to commit credit card fraud ordering hydroponic equipment. My friends tried the same technique of ordering to a mail drop in Blaine Washington, but the card numbers had already been used by one of my co-conspirators. As such, some of my friends were busted by the FBI and one spent significant time In a US jail.

I was also growing marijuana at a young age, where I used fluorescent lights and tinfoil to start a small grow operation in my parent's attic. I grew from seeds found in bags of marijuana, but unfortunately I was caught by my stepfather who was looking for a leak in the roof. He confronted me one day and asked, "Whatcha growing up there Jonathan?"

I managed to obtain a copy of the Anarchist's Cookbook by mail order, which I used instructions from to synthesize a drug called Dimethyltryptamine (DMT). This involved ordering various chemicals which were difficult to obtain such as indole, oxalyl chloride, and lithium aluminum hydride. Most of the chemicals I had sent to a Washington State drop shipper, wherein I smuggled the ingredients back into Canada.

I was clever enough to steal a set of one of my high school teacher's keys (Sorry Mr. White), and broke into the chemistry lab after school to steal all kinds of assorted glassware, stands, distillation and safety equipment. While my parents were on a trip to Mexico, I distilled

ether from engine quick start fluid and began synthesizing drugs in my parents backyard. In retrospect, I am lucky I didn't blow myself up. When not synthesizing drugs, I would use the distillation set to distill Chinese cooking wine into moonshine of about 160 proof and throw teenage moonshine parties while my parents were away.

That moonshine created nothing but problems. My friend Josh Vanderswan would blow fireballs for amusement and my other friend Scott Burr became so drunk he fell in my front yard with his glass and cut his hand wide open, requiring a trip to the hospital for stitches. Further, a girl named Kelly Hardy who we nicknamed "Mickey", was sitting in my front yard drinking the moonshine straight.

However, by grade 12 my knowledge of chemistry was substantial, and I in fact won the Chem 13 News exam scholarship, beating everyone in the Langley school district including the International Baccalaureate students. My illicit activities had encouraged me to learn a great amount about chemistry.

By eighteen I had set up a small grow operation in an apartment in Langley, with my friend at the time named Derek. Although we were able to grow the plants quite successfully, hydroponics was a stupid idea because one almost always has leaks. My circumstances were no exception, where I was busted after the hydroponic system overflowed from a root ball plugging the drain, leaking down into the suite below me. I was charged by the Langley RCMP, but made a joint submission with the prosecutor for simple possession of a narcotic and received a $1000 fine.

By nineteen I was the assistant manager of Pacific Northwest Garden Supply in Surrey, which was essentially a hydroponic store for marijuana growers. Although we always used the term "tomatoes" when referring to growing plants, this was a store mostly for criminals. There I met numerous contacts and learned all kinds of information about advanced marijuana growing, to by-passing power meters, controlling smell, planting successful gardens outdoors, pest control, and making illicit contacts in the power company for upgrading power transformers and wiring on the power pole. I was also able to obtain clones of some very good strains. Clones are

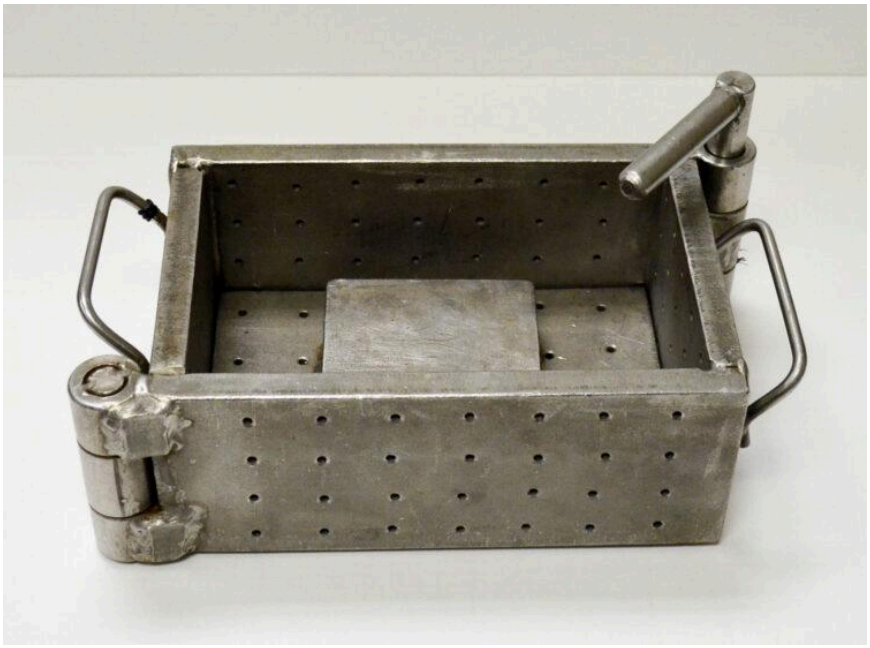
rooted branch tips of another plant and are genetically identical to the donor plant (often referred to as the mother plant).

Chapter 2 - The First Murder

The unfortunate reality of the underworld is that some people end up dead, usually because of a valid gripe. There was a regular customer at P.N.W. Garden Supply named Todd Dion, who drove a lifted Ford F-350 pickup and was often adorned in gold jewelry with sleeve tatoos. Later I met Todd through another contact of mine named Wally “Walmart”, whereas I will elaborate on the Walmart nickname later on.

One day Wally called me up and said he needed help with a grow op. Todd had gone missing and the grow operation in his basement needed maintenance. Apparently Todd had phoned his estranged wife and said that he would home in half an hour after returning from a trip from the U.S., but then was never seen again.

When Wally and I arrived at Todd’s place, Wally showed me a manual press of some sort and explained it was a cocaine press. A cocaine press is a device which allows someone to break down a kilogram of cocaine, remove product, add a cutting agent, and then recompress the now diluted kilogram into a new block.



Todd’s body was found a few weeks later, tied down to cinder blocks in the Fraser River. I had heard the water level in the river had become unusually low, and two hikers that were walking the river could see the silhouette of Todd’s body underneath the water. As the story goes, Todd was working for a serious criminal named Tom Gisby

and was ripping Tom off by recompressing his bricks of cocaine after smuggling them in from the States. I had also heard that Todd was tortured before he died, including being shot in the knee caps.

That murder really imbedded a simple concept into me that if I wanted to stay above ground, to not fuck around. Whenever the story is told, we would refer to him as Todd Dion and the Fraser River swim team. Tom Gizby was killed in 2012 in Mexico, whereas the police referred to him as a “high ranking organized crime figure”. Personally, I never met him.

Chapter 3 - As an Adult

Now I have to be careful here as to what I write, as Canada does not have a statute of limitations for indictable offenses, unlike the United States. As such, I am not going to self incriminate myself. Further, some of the following statements may be/are pure fiction, thus I should not be prosecuted based on fictitious accounts.

In the late 1990's and 2000's we were at a moderate level in both marijuana production and marijuana smuggling into Washington State. I've seen on MythBusters that it was impossible to fool drug dogs, but I assure you this is wrong. I have fooled drug dogs many times by vacuum sealing multiple layers over the drugs, which causes molecules to be slowly pulled into the bag from negative pressure, as opposed to slowly permeating molecules out which a dog can easily detect. These machines are available at Costco and Walmart.

Marijuana growing was done much like it is done today in the legitimate, legal industry, with the exception being the odour control and concealing power usage. I believe if the power companies wouldn't rat out pot growers for high power usage, very few growers would have stolen electricity.

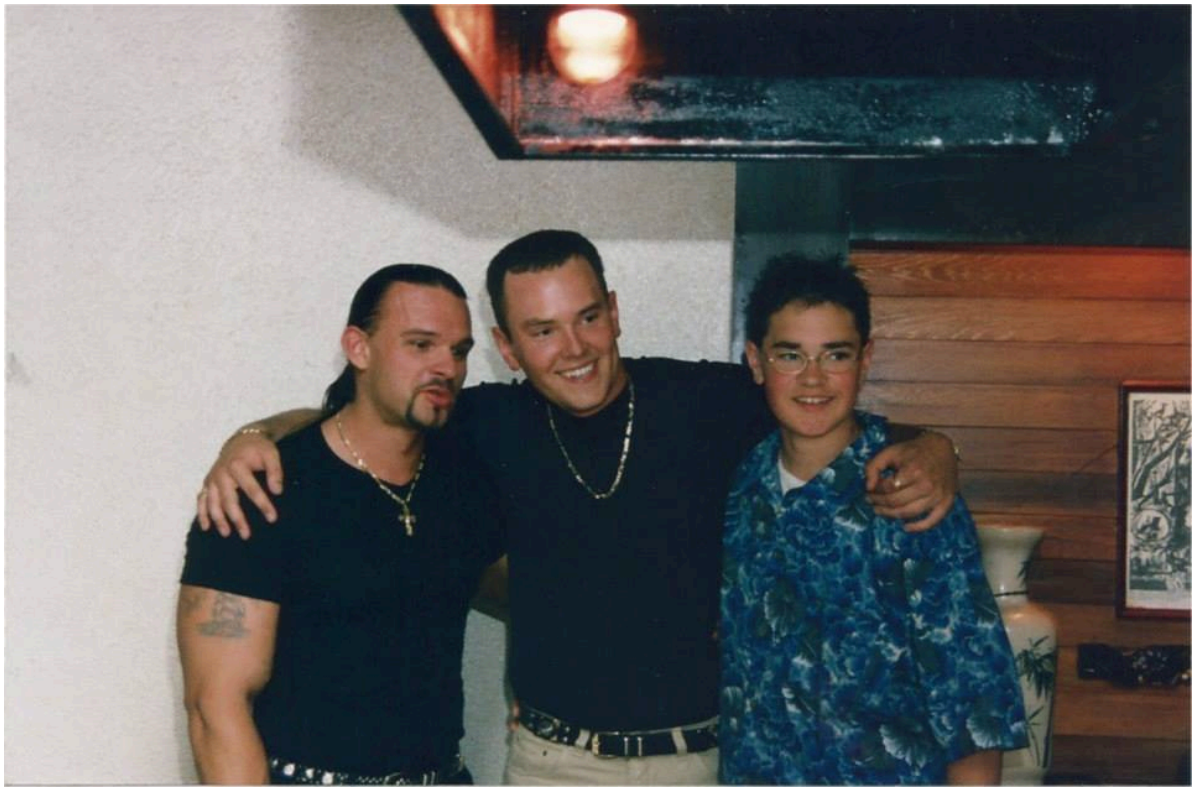
By 23 years of age I had partnered up with a steroid monkey named Corby. We had a Abbotsford warehouse grow operation with Dave and Sam. I remember Sam was some immature goof who was always complaining, wanting more than what he was entitled to and not much help for getting work done. One day Sam stepped on a finishing nail and needed to go to the hospital claiming a "spike" had gone straight through his foot. When I told him he probably required a tetanus shot he responded by saying, "Yeah buddy, I can feel the tetanus coming on already!".

I remember Sam phoning me one morning, trying to get out of work assembling light reflectors because of his injury. I responded that I would be coming down with a wheelchair and would push him around the warehouse as needed. I heard a long pause on the phone to which Sam then said in a grumble, "You think you're pretty funny, don't ya?".

One day Dave and Sam were visiting the Abbotsford warehouse and were “stuck up” by a couple “would be” robbers. From Dave’s account, he ran as fast as he could from the scene. One of the robbers was so mad that he walked up to Sam and shot him right through the belly.

Dave phoned me out of breath and upset thinking Sam was dead, so we waited for the 11pm news but heard nothing. However, the following noon news broadcasted video of Sam on a stretcher yelling at the camera operators, giving the middle finger to the news people and shouting, “Get those fucking cameras out of here!”. Not surprisingly, the newscasters described Sam as an uncooperative victim.

Everyone waited for the grow operation to get busted, but after a few days Corby and myself decided to check on the operation. We had already been smuggling Glocks back from Washington State, so Corby and I showed up armed like Butch Cassidy and the Sundance Kid. I had a laser sight mounted on my .40 calibre Glock 21 and was ready for action, but the plants were still growing well and no robbers were in sight.



Guy the Electrician

Guy (pronounced guy) was a funny little man with lots of long gray hair but clearly with small man syndrome, and wanting to prove himself when his buddies egg him on. That kind of guy who can't place sensibility vs. pride could get himself killed and probably often has.

Guy was bragging to his group of buddies about his ability for bypassing power meters without using gloves. You see, the two hot wires coming into a residential home are on average 240 volts and 100 or more amperes. You can seriously weld metal together with this kind of power. A shock at this voltage can easily kill you.

Well, a friend of mine offered Guy $1000 for a barehanded power bypass and Guy agreed. When we arrived and observed Guy grind through a power conduit to explode the inside wires, and he was working away.

For certain a bare handed power tap is possible, and I've seen a lineman touch a live 120 volt wire to see if it's live, just because he is in lineman's boots which are very non-conductive, so he only gets a light buzz. You may not be so lucky. The trick is to not provide an effective ground through your body.

All of a sudden Guy started shouting at everyone, "I don't need this fucking audience! Get the fuck out of here and let me concentrate on my job!". People were drinking and egging Guy on, so his gripe was valid. Everyone left the room but I spoke with Guy in private.

"Johnny, I just had the shock of my life!", Guy whimpers to me. "You fucking idiot I said, there are some rubber dish gloves you can double up on upstairs. You should never do this". In reality a person should use lineman's gloves available from any electrical supply company, which are rated for around 1500 Volts. Although Guy was the first time I'd ever seen a power tap done, working with live electricity barehanded is for sure dangerous and just plain stupid.

Busted

One such occasion in 2003 was at my plush, gated home in Surrey, British Columbia, where I lived with my most attractive fiancée. Carla was a well known stripper who went by the name Kyla Ryder, and traveled all across Canada performing in many venues. Carla was away for a couple weeks, and I was using our recreation room along with an entire cutting crew of perhaps a dozen people trimming and drying marijuana that came from a house that was on a gulf island. I was a significant employer of single mothers looking for extra cash and good free food.

The problem began while I was cooking pizza for the entire crew, and accidentally burned some cheese on the grill setting off the smoke alarm. Although I entered the correct code and silenced the alarm, the alarm system hijacked the outgoing landline and ADT was unable to contact me to disable the system. As a result, a few minutes later we had the fire department at my front door.

The firemen smelled the marijuana immediately and ran back to tell their supervisor at the fire engine, who immediately demanded entrance to the house. Of course I refused, and within minutes the house was surrounded by Royal Canadian Mounted Police (RCMP) also demanding entrance. The police told me no matter what, they were coming into the house.

I ran back inside and started shredding documents and hiding cash all over the place, in wall sockets and the bottom of paint cans. A few minutes later I watched an ax come straight through the front door, and after the door swung open an RCMP officer who was pointing his firearm at me ordered me down to the floor. I of course complied and I was handcuffed from behind laying on the floor.

The police ran up and down the stairs yelling, “Where is the grow op?! Where is the grow op?!”. Then one officer ran down the stairs and kicked me hard in the lower floating rib, which really fucking hurt. I yelled at the cop and called him a motherfucker, to which he stood me up and threw me into my front door while saying, “Watch yourself!”. The same officer then

launched me off my front step handcuffed, where I fell into the snow very hard. The officer then picked me up, then tripped me so I would fall down again. He of course didn't know at the time that a video camera system was recording the entire event.

After I was brought to the Surrey police station, I was thrown into a cell and denied any communication with my lawyer Greg Delbigio. At the time Greg was the foremost organized crime lawyer who had represented gangsters and other major associates. I used wet tissue to write out on the floor, "RIGHT TO COUNSEL" and "WRIT OF HABEAS CORPUS" so that the cameras would record the Charter of Rights and Freedoms violation.

In addition to about 35 pounds of marijuana, police found Generation 3 night vision goggles, multiple two way radios, base station radios, electronic counter surveillance equipment, vehicle tracking equipment, image stabilizing binoculars, a fingerprint kit, a pump action 12 gauge shotgun, huge telephoto lenses and high speed cameras, and all kinds of telephone and audio bugs along with audio intercept equipment. As well, vacuum sealing equipment and waterproof bags that could be used to smuggle marijuana. I also had about 7 active cell phones, all designed to communicate independently with different business associates. These phones are the proverbial "burner" phones, and yes they were all in fact burned. I also had a custom made scuba diver jacket which had seven properly sized inside pockets made for the phones.

But what upset the police the most was the large collection of Paladin Press books. Paladin Press operated for 47 years distributing a wide variety of books on terrorism, explosive making, gun and silencer manufacturing, interrogation, espionage, surveillance, countersurveillance, murder for hire, drug manufacturer and smuggling, military books, safecracking, and disposing of dead bodies. I probably had the entire collection, which comprised every row of a book shelf. Notwithstanding, although I have studied most of these books in depth, I have never committed the overwhelming majority of crimes described in these books.

What I didn't realize at the time is that some of the worst criminals in American history were found in possession of Paladin Press books, such as Timothy McVeigh who blew up the

Oklahoma FBI building using improvised explosives, as well as several professional assassins who were found in possession of a book entitled The Hitman. I learned all this years later on an episode of Investigative Reports with Bill Kurtis.

I am certain that possession of these books reached the Canadian Security Intelligence Service (CSIS), and piqued the interest of the RCMP. After holding me for an entire day and denying me my constitutional right to speak to my lawyer, the cops then used guilt as a method to try and elicit a confession from me. The cop stated that if I didn't take the fall and confess, my entire cutting crew would be charged. I told the cop to go fuck himself, noting they didn't have a search warrant thus their case was doomed.

I should note on a side track that I had already known for a fact that CSIS had intercepted communication between myself and a now convicted terrorist Alfred Heinz Reumayr in the late 1990's**.** Mr. Reumayr was involved in a company called Cool Light Holdings Inc., which manufactured water jackets for high pressure sodium lamps that effectively removed most of the heat from high intensity lights. I was experimenting with the technology for more efficient grow room cooling, but the lights never reach their full output and thus yield is cut substantially.

Unfortunately and unknown to me, Mr. Reumayr was planning a terrorist attack on the Alaska pipeline running through British Columbia for financial gain, by causing a crude oil supply shortage on the eve of Y2K. After the plot was foiled, it was later published in the newspapers that all of Mr. Reumayr's communications were intercepted by literally every federal intelligence and law enforcement agency in North America.

When I was released and returned home from the marijuana raid, a private investigator that worked for me quickly pointed out that a sport utility vehicle in the back alley was in fact a police surveillance crew. What the police didn't know was that I had hired a rogue private investigator many months before, to ensure that I was never under surveillance by the police or anyone else. In fact, Shane trained me and Carla quite well to spot the telltale signs of surveillance and their tradecraft. Since Shane was Irish, we called him Officer O'Malley.

There began at least two years of telephone taps, vehicles trying to follow me, people trying to listen in on conversations at bars and restaurants, and sometimes even the damn RCMP helicopter. One of the worst surveillance tails that myself and my fiance encountered was two guys in a minivan with a garbage bag taped to the back window and a hole cut in the centre of the garbage bag. Officer O'Malley laughed and explained to us that the police use the hole for photographing and filming subjects from a distance, without us being able to see the silhouettes through the tinted windows.

I would be pulled over by RCMP officers often, without them stating a reason. An officer would stand on the rear passenger side of my vehicle with his hands on his pistol. On the advice of Greg, I would only roll down my window enough to slide my driver's license and insurance through. Sometimes I would be pulled over because someone said something stupid on my landline phone, such as, "I need 20 tickets to the show. And they should be front row seats, but I can pay $28 per seat". This was code for needing 20 pounds of AAA grade marijuana and willing to pay $2800 a pound. This code is about as smart as Tony Soprano's crew having someone in a trunk still alive and Tony shouting into the phone, "The package must not survive!".

Sun Tzu once wrote, "*All warfare is based on deception. Hence, when we are able to attack, we must seem unable; when using our forces, we must appear inactive; when we are near, we must make the enemy believe we are far away; when far away, we must make him believe we are near.*"

From then on I would always assume my house was under surveillance, so would begin a number of anti-surveillance moves after leaving the house in my new Monte Carlo. Every move I made was based on deceiving the police. One effective trick was to drive one direction down the freeway several kilometres, then take one of the emergency exits that only emergency vehicles were allowed to use in the centre of the freeway. This would essentially require anyone following me to keep driving straight past me to the next freeway exit, whereas at this point I would be long gone and off to my business contact in the opposite direction.

On the phone I would communicate with my fiancée that I planned to stay home all day, then I would simply hop the back fence, and sneak up the alley to an awaiting vehicle. Yet another trick was to hide in the cargo area of my fiancée's Ford Expedition, and allow her to drive to work. I would lay back there for some time afterwards until I was reasonably certain she wasn't being further surveilled, and then would pop out and meet an awaiting vehicle or take a cab.

This became so frustrating to the RCMP that they started following me with their helicopter. I remember once when a business contact named Bill mistakenly called my normal phone instead of my pager and said, "This is 816", rather than paging me 816. I then hung up and called him from a pay phone. This started intense surveillance on me, to which I was able to ditch, but then I noticed a helicopter doing a wide perimeter around us at the meeting with Bill. I pointed to the helicopter and told my friend, "Do you see what you have caused?". The blue, red, and yellow stripes of the RCMP helicopter were clearly visible with my Canon image stabilizing binoculars. wherein I could in fact even read the call sign.

Scary Gary

Scary Gary is a well known full patch member of a ubiquitous outlaw motorcycle club, and is currently serving a life sentence for double contract murders. But at the time I knew him he was an up and rising prospect. Gary was purchasing a large quantity of a particular legal but rare chemical used for a particular product, but rip offs were commonplace. Gary had asked me to come along and test the chemical, as he was purchasing $250,000 worth of this substance

I wouldn't refuse an accommodation from someone such as this. He was depending on my expertise, but I recognized the amount of money and product involved would amount to a dangerous transaction to say the least. I almost never carried a firearm on a marijuana deal and only dealt with people I trusted, but on this occasion I loaded a Glock 21 and threw on a fanny pack to stow the weapon.

When Gary arrived at my house he said to me, "You know I don't really know these guys. I should have brought a piece", wherein he was referring to a firearm. I assured him I had one already, to which he seemed relieved. Harry then remembered he had his club vest in the trunk and asked me to take it into my house for safekeeping. I remember running up to the front door, where my brother was visiting. I handed it to my brother Careis and said to him, "Bro, if they ever find out you tried this vest on they may kill you, so please don't".

Gary was using a PGP encrypted Blackberry, which was a common device for secure communications between criminals at the time. We met up with one of his friends, where Gary asked his friend, "How well do you know these guys?". His friend used his thumb and index finger to symbolize a gun and replied, "Not very well, but don't worry I brought one of these". I thought to myself this could be trouble.

We were supposed to meet at the bottom of an underground parking lot in downtown Vancouver, but there are so many of these parking lots that we kept driving from one parking lot

to the next without any luck. We were quite late as a result, and one message after another finally lead us down to a small group of men and a pickup truck.

The boss of this group started shouting at us almost immediately exclaiming, “Do you have any idea how fucking long we have been waiting!? Do you think this is some kind of a fucking game or something?! You stupid motherfuckers!”.

His angry outburst immediately brought concern not only to us, but also his subordinates. I observed two of his buddies reaching into their jackets for their guns, which caused myself and Gary’s friend to start reaching as well. Before you know it, a few of us are hiding behind concrete pillars with our guns drawn.

I said in a loud but friendly voice from behind the pillar, “We are truly sorry! We were lost and going from parking garage to parking garage. We are here to do business and meant no disrespect”. These words resulted in everyone holstering their guns away. This is as close as I’ve ever come to a gunfight.

I learned years later that Step 10 of a 12 step program says, “Continue to take personal inventory, and when we are wrong, promptly admit it”. I can tell you categorically that Step 10 probably saved us from carnage, and a deal gone very wrong.

The product tested as expected and we completed the transaction without incident. I still reflect on this day, realizing I had chosen a profession that could easily result in dire consequences.

“Johnny White Rock”

Usually when one of my many grow houses had cropped, I would visit three characters known as Shawn, John, and Andy. I don’t know what has become of Shawn and John, but their hard partying and heavy substance abuse has probably cut their lives short.

Notwithstanding, they were relaxed, jovial fellas to do business with. I never needed protection, and would often “front” them my marijuana. Never once in many years had they shorted me a dime, and transactions were always smooth. On top of that I often hung out with these guys socially, even having sex with John’s younger sister at a Halloween party, as we were both dressed as genes and coked out beyond belief. I don’t think John appreciated that so much however.

But one day John’s car was in the shop and he didn’t have the money on him to pay for a rather large amount of product we had harvested, somewhere around 40 pounds that filled two hockey bags. John hopped in my new Dodge Durango and we proceeded to a really seedy area in East Vancouver. John was directing me through streets with run down homes that looked more like “crack shacks” than domiciles.

When he told me to pull over and park I looked at John and asked, “You’re kidding, right?”. I was expecting a mansion, not a dumpster. John said, “Not at all, follow me”, and then proceeded to exit the vehicle. At this point I was worried if I pulled out these two hockey bags we would be mugged for hockey equipment, yet alone $120,000 of high grade pot.

We walked up to one of the ugliest tear down homes I’ve ever seen, and the side door was partially closed but still wide open. We knocked, to be greeted by a skinny, pale, long haired young man wearing an old Atari t shirt. His name was also John, but because there were so many Johns in our profession we became known by our geographical location or other name. I was known as John Junior, because I was considerably younger than all of these guys.

After exchanging formal greetings and me wondering whether I should give Johnny White Rock my spare change for food, Johnny White Rock brought a key over to a padlocked room which I could see was heavily fortified with steel plates and plywood boards. After he opened the door and threw the lights on, I witnessed an entire wall of packaged marijuana stacked to the ceiling. He lifted up a waterproof bag and dumped at least $200,000 US cash onto the floor.

Johnny White Rock was higher than a motherfucker on MDMA, even by Nicki Minaj's standards, and proceeded to a money counter on a small table where he started running the cash through the machine to confirm ten thousand dollar stacks of hundreds. I disliked taking US dollars as payment, but John always gave me about 4-5 points above the current rate for the hassle. And in fact, Johnny White Rock was so high that he overpaid us by about $5000, but John returned it promptly upon realizing.

I know most people believe drugs are a cut throat, dirty business, but let me tell you that if you are dealing with the right people it is more honest than any other business. You see, if you screw someone on a car deal then the matter may end up in the courts. But if you screw someone on a drug deal, you may end up severely beaten or dead.

Later I heard a story from John that dropped my jaw. Johnny White Rock was using a pilot named Scott and a Cessna 182 to drop the marijuana loads on Mount Baker, which is right on the border of Washington State and visible from the Fraser Valley of British Columbia. But Scott and Johnny White Rock would often be doing lines of cocaine while they were flying, and often skipping a well established procedure of radioing to the guy on the ground before dropping the load.

On this particular occasion, Johnny White Rock saw his contact on the forested mountain and started throwing out hockey bags full of marijuana. After dumping the entire load on his contact, they started to fly back to Canada. But then came the ground contact on the radio asking, "Hey, where are you guys?", because the guy was late.

As it turned out, Johnny White Rock dumped his entire load on some poor hiker that was walking with his dog. The chap was so scared that he took some of the bags directly to the local police. The next day the Seattle Times ran a story entitled, “Pot Falls From Sky”, wherein Johnny White Rock dumped $500,000 worth of dope onto an innocent civilian.

Dave's Ghost House Fortress

My Italian friend Dave was also quite a character. Short in stature, balding, with a prominent mustache and spoke with a lisp. Dave was known for operating ghost houses, which are essentially grow operations where no one actually lived in the house. Also, Dave was greedy and never listened to my warnings about electrical overload of the wiring in older homes, which on occasion overheated the wires leading to the overhead wiring falling off the side of the house. This caused a spark show in the yard as the live electricity grounded out and usually resulted in the police.

Dave was also determined not to get ripped off, where ghost houses were ideal targets for a rip off because nobody was ever home. Maybe a thief would be a "clipper", a supposed friend, or perhaps the thief became aware of the grow op from the smell outside. I used to imagine that a sophisticated thief could use a portable thermal imager, which would allow them to go from neighbourhood to neighbourhood being able to see the heat signature of exhaust systems blowing 75 degree Fahrenheit heat out a chimney or some other exhaust port. As such, Dave would have a welder make jail style steel doors which he would mount on the entrances and the door to the basement.

Dave called me up one day and asked for some assistance. Apparently the grow lights of one of his ghost houses had stopped working, even though appliances in the house were working without issue. I showed up to the house with my multimeter and other test equipment.

It was a problem I had never seen before. When testing voltage between ground and a live wire, I was reading 120 volts as normal. But when I tested the two "hot" wires together, I had no reading whatsoever. As this didn't make any sense to me, I phoned my contact in B.C. Hydro (the power company) and asked him if he could explain what was happening. J.C. my contact explained to me that the transformer had overloaded and was now producing electricity from two hot wires that were now in phase with one another, as opposed to 180 degrees apart from each other or a potential difference of 240 volts.

Dave and his friend Harry asked what they should do. I told them that the power company would get wise to what was happening and that they should crop early and abandon ship. Well Dave and Harry didn't like that idea at all, and plotted to simply phone the power company to have the transformer on the pole repaired. As usual, they did not listen to my caution.

So, linemen from B.C. Hydro came as expected and replaced the transformer on the pole. But they also came back in the early morning with a special amperage meter on an insulated pole which allows them to detect if someone is stealing power. This of course was reported to the police, which resulted in an impending raid.

Although it was a ghost house, Harry had a house right across the street. All of a sudden an RCMP raid team showed up to the ghost house, hooked up a chain to the front fortified door and a sport utility vehicle (SUV), then ripped the steel door right out off the wooden frame. The raid team went in, only to find out there was a second steel door at the bottom of the basement.

The RCMP raid team now had to wait, as they called in a welder with an oxyacetylene torch to cut through the downstairs door. Meanwhile, Harry was ducked down across the street watching the entire incident take place. As I understand, Harry had the ghost house under his name and was later charged. However, I don't know the outcome.

RCMP raid teams hated having to haul equipment out of a grow op, so often they would snip the wires on the light ballasts and smash the lights after bagging the plants. Dave was so cheap that he would bring these ballasts to an electrician he employed to solder wires back onto the lighting ballasts, and resolder water coolers that had been damaged by the raid team.

2008 was the last year I ever broke any serious laws. I was caught marijuana growing and because I had been like Speedy Gonzales for so many years a special prosecutor was appointed, and I had to fight to avoid jail and receive a conditional sentence. Myself and my brother both paid double the damage to the house, wherein we normally did not use lease to own homes. That

was when I left having anything to do with committing crimes myself, but sometimes writing about theoretical crimes.

Being a “civilian” is humble and it’s taken me quite some time to learn how to have consistent employment and work in a suit and tie environment, with yes sir and no ma’am to customers that expect excellent service. I didn’t much take shit from people before, but I can say that’s me being more mature.

Bill Lawson and Constable Lord

I've known for sometime that high ranking RCMP officers hate me and want me dead. I can also tell you that in every single criminal case where I have been a victim, the RCMP will never bring charges to the other party. One such example was a crazy, methed out boxer named Billy Lawson.

There was a time back in 2020 where I was earning low income and living at the Salvation Army shelter in Nanaimo. I was employed and paid taxes, but just not earning very much money living on the island. I had just finished a hard day as a garbage man and a 10 hour shift. I was tired, in excellent physical shape, and eating at the Salvation Army cafeteria. Some little guy and his friends sit down next to me, drop a heavy knapsack almost on my foot and then laugh at me.

Then another person walked about to retrieve a notebook, and the group of four males and one female starts taunting and intimidating the one guy who is doing nothing wrong. Well I don't like bullies, so I spoke up immediately and said, "Let him retrieve his book".

All five then sarcastically exclaimed, "OOOOOooooOOOhh!". Billy Lawson then looked at me with these pupils the size of saucer dishes and said to me, "I guess we are going to see who's tougher then, aren't we?". I'm sure I responded with "whatever buddy" and went about eating my dinner.

But when I put my plate away, Bill Lawson was already standing up and exiting before me, wherein I suspected this much smaller man wanted to fight. I proceeded outside, to which Bill Lawson was waiting. He was wanting me to come off camera and fight, to which I tried to ignore him and proceeded back to my car.

Bill Lawson then brandished a fork bent to be held as a weapon, so that he could punch with it. I saw the weapon and then said to him, "I don't want to fight you, this isn't fair. Ditch the

weapon". Bill Lawson then lunged at me with the fork, to which I raised my left hand to block and was stabbed with a fork in the left hand.

In fact, at the end of the fight I had been stabbed multiple times with the fork in the left hand, but also was stabbed in the ear, on the shoulder, and in the neck. I did in fact require stitches in my ear to hold the flesh back together.

Bill Lawson was too fast to hit. I would swing at him and he would move to dodge the hit. He was as good as the black belts I've sparred with in karate class, to which I am an intermediate in Karate and Jujitsu. So I made a decision to charge him and take Bill to the ground.

Now I was hammer fisting Bill Lawson in the face and he was done. I had him in exactly the finishing move position you see UFC fighters doing a "ground and pound" on their opponent. But instead of a referee breaking the fight up and declaring me the winner, one of Bill's friend's flying kicked me in the chest and caused me to go flying off of him.

It was then I realized I was in a fight with five people and I truly began to feel scared. I was chasing towards the four others to let them know I would fight them too. Then came a police car with sirens, and those five fuckers ran while I went straight to the police for help.

Despite my statement at the hospital, no charges came to Bill or his friends. There were many witnesses who drove by and saw the fight, there were photos of me being stabbed over and over again, but Constable Lord would not talk to me or even accept photographs of my injuries. I left numerous messages with Constable Lord, to which he did not return a single message.

Then one day out of nowhere Constable Lord appears at the homeless shelter asking for me. Rather than pull me aside, he has a conversation in front of at least half a dozen people who likely know Bill Lawson, and Constable Nate Lord asks me to provide a statement so that he can charge Bill Lawson. Of course, I had already given a statement before.

Now this police officer has intentionally endangered my life. On top of that, he leaves a message a few days later saying he has charged Bill Lawson with Assault with a Weapon. But I looked on the BC Court Services website and sure enough I can find a whole history on Bill Lawson including other assault charges, but absolutely no charges against him or information sworn. No appearance dates - nothing.

Search Traffic/Criminal By Participant Name - Individual Results

Refine Search
New Search

Search Criteria

Last Name: LAWSON
First Name: william
Location: Nanaimo Law Courts
Level: Provincial
Class: Adult

Results: 1 - 8 of 8

Level Class	Document Reference	Last Name, First Name	Court Location	Date Time	Room	Rsn	Last Rslt	Agency File #	View
P,A	72039-1	LAWSON, WILLIAM Ernest John	Nanaimo Law Courts	14Dec2010 9:30 AM	109	IGP	END	810:10-19399	View
P,A	72039-2	LAWSON, WILLIAM Ernest John	Nanaimo Law Courts	18Nov2011 9:00 AM	REG	APP	END	810:10-19399	View
P,A	59848-1	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	13Jul2005 9:30 AM	109	AHR	END	810:05-20164	View
P,A	59848-2	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	21Sep2005 9:30 AM	109	APP	SL	810:05-20164	View
P,A	59848-3	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	20Oct2005 9:30 AM	109	APP	SL	810:05-20164	View
P,A	59848-4	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	06Feb2006 2:00 PM	REG	APP	END	810:05-20164	View
P,A	61443-2	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	06Apr2006 9:30 AM	109	APP	SL	810:06-5136	View
P,A	61443-3	LAWSON, WILLIAM Ernest	Nanaimo Law Courts	21Apr2006 9:30 AM	109	AVB	END	810:06-5136	View

Constable Lord is a fucking liar. On top of that, I exercised my right to charge Bill Lawson by swearing my own information with a detailed affidavit of the incident, and the Crown prosecutor stayed the charges rather than allowing me to appear before a judge with compelling evidence of a five on one assault with a weapon.

I filed a complaint with the Royal Canadian Mounted Police Complaints Commission, and Constable Lord's commanding officer who investigated the complaint reiterated the total lie that Bill Lawson was ever charged (I can see his whole fucking history on BC Court Services

online), and completely ignored the complaint about addressing me in front of six people and asking me to rat. The RCMP are therefore in my books totally corrupt.

My Inventive Ideas

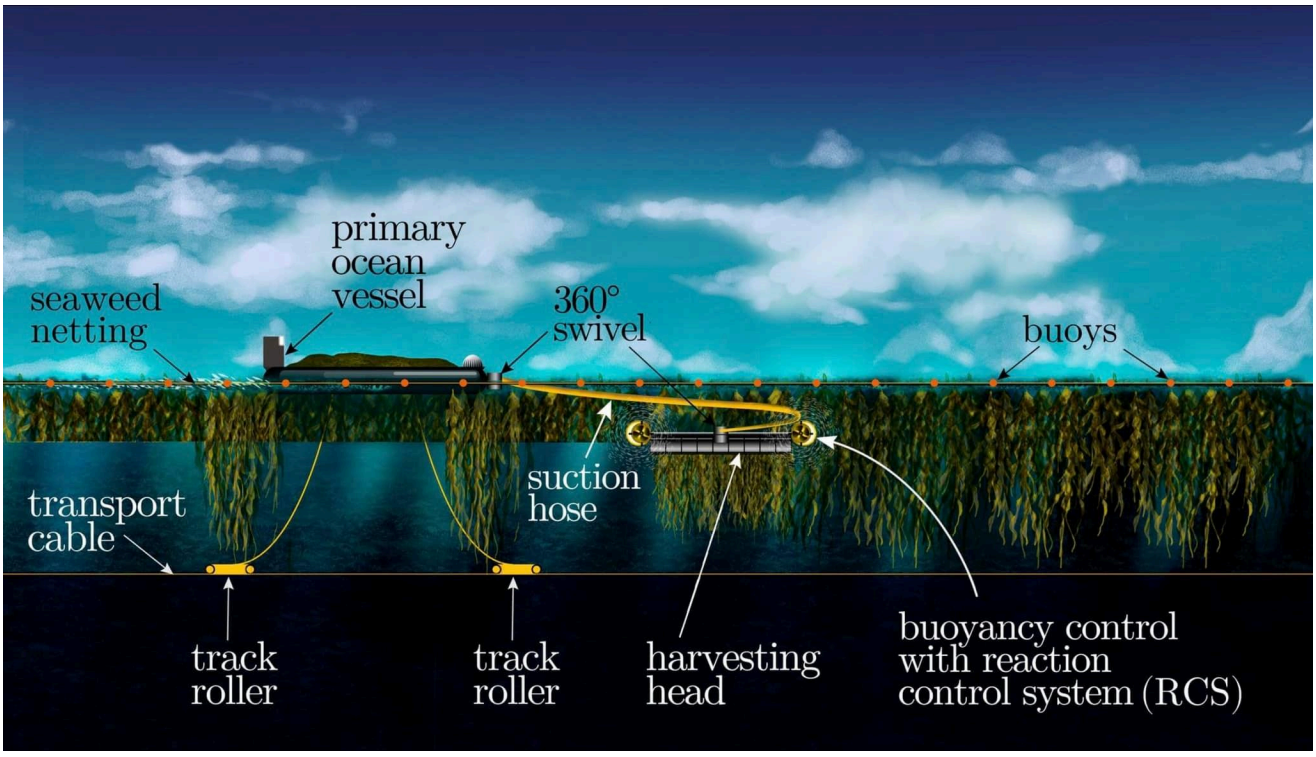
One of my underworld contacts named Jason phoned me in 2010 while I was working as a fleet manager for a Fort McMurray auto dealership. I already had a reputation for being a mastermind of some kind. Jason asked me what I knew about seaweed. Jason was a former MDMA cook for Clay Roueche and the United Nations gang of Vancouver. Clay Roueche is serving a 30 year sentence for drug importation and trafficking in a U.S. prison.

I should mention there is no more fiction in this book. I told him the seaweed could be used as fertilizer, food, and fuel, but also to extract hormones to promote plant growth. Norwegian kelp for example is high in gibberlens and cytokines, which can be used to alleviate plant stress and promote yield.

Jason and his friend Charles were impressed, where they informed me they had a license to harvest 5000 metric tons a year of *mazzaella japonica*, which is an annual growing, short macroalgae that is often used for carrageenan. Carrageenan is often used as a thickener for chocolate milk, ice cream, whipping cream, liquid coffee flavors, and the original Crest toothpaste formula.

5000 metric tons amounted to millions of dollars worth of dried seaweed, but we needed to figure out a way to get it off the beach. Using one tracked vehicle made moving 5000 tons almost impossible.

So, I invented and patented three inventions related to vacuuming seaweed off the beach and in the surf. This idea eventually developed into a drone based cultivation and harvesting system which is predicted by a physical model created by a PhD in physics (Christoph Pahl), to be 6.5 times more energy efficient than the *status quo*. Hence, this technology may one day be used to replace fossil fuels along with electricity and hydrogen, especially if used in tandem with a nuclear reactor to refine the seaweed into fuel. Shell Oil abandoned their seaweed-to-fuel program because they believe it's 30 years away.


primary
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buoyancy control
with reaction
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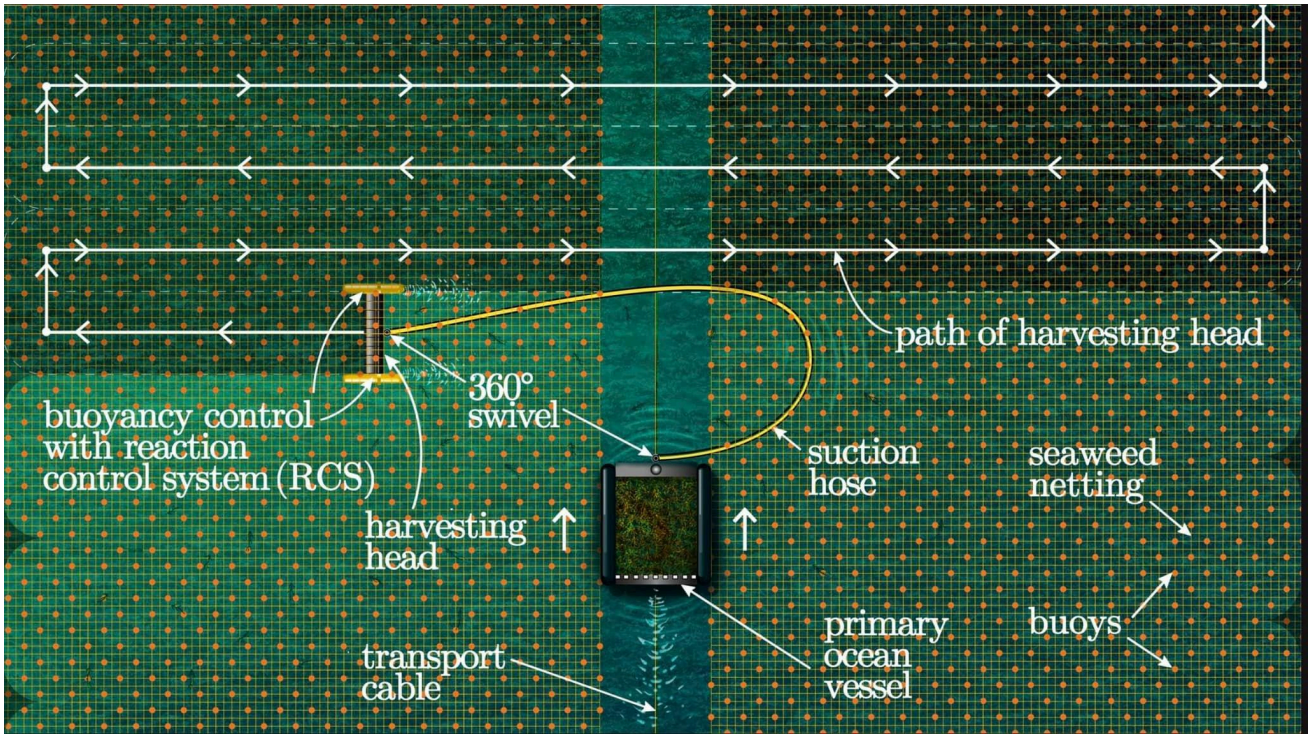
path of harvesting head
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with reaction
control system (RCS)
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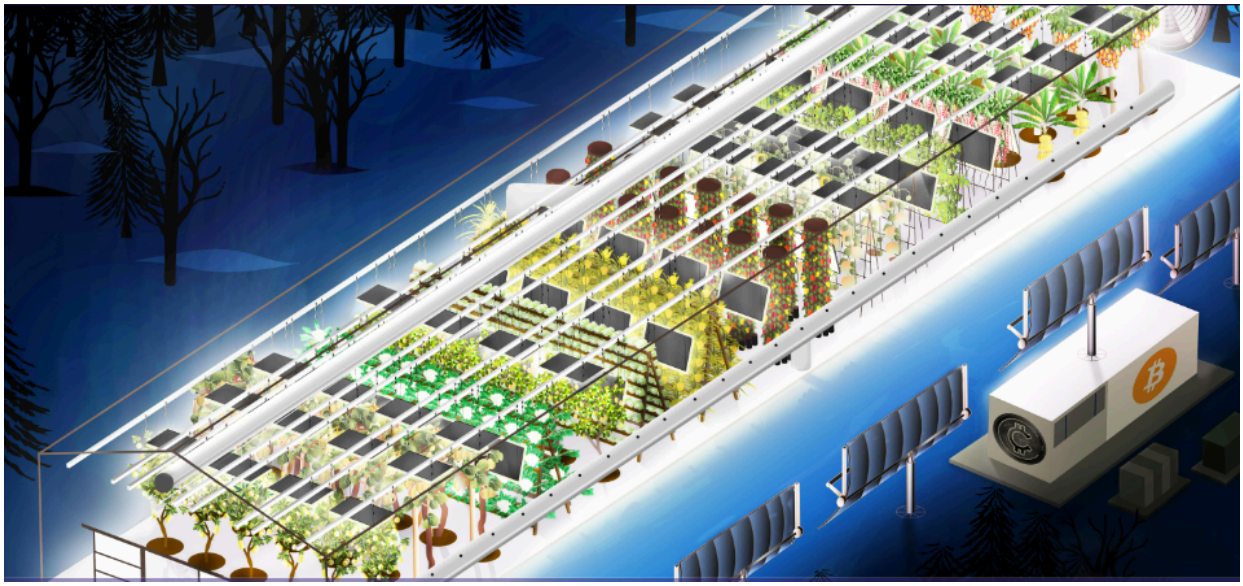
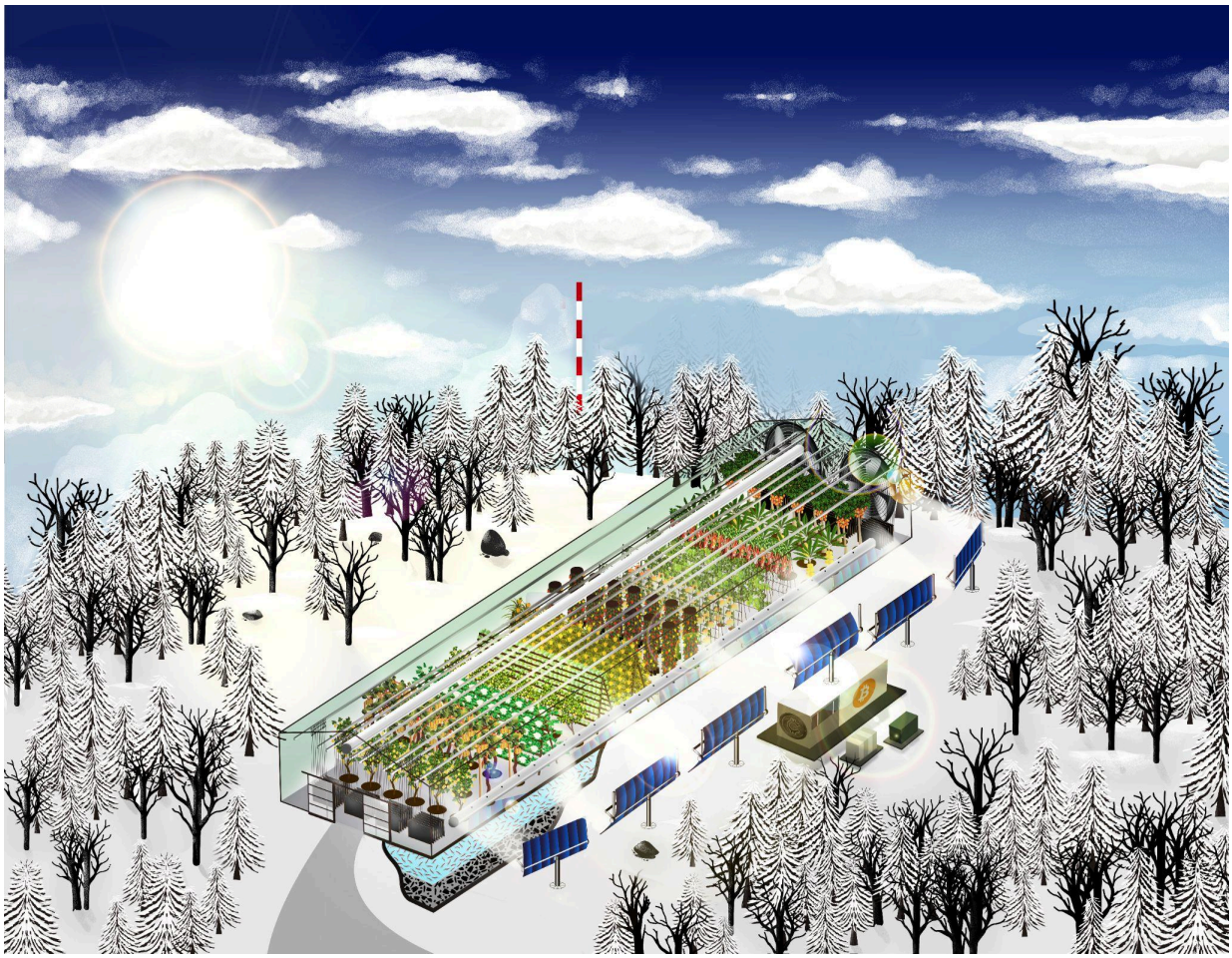
ocean
vessel
buoys
transport
cable

Another invention I have currently pending in the Canadian Intellectual Property Office (CIPO) is that of a winter greenhouse with a robotic light moving system. The concept is based around the use of waste energy from an oil well emitting waste flare gas, or more sustainably using a source of geothermal energy. Also, by precisely regulating the temperature of the heat sink (mostly composed of water), we can grow shrimp in the heat sink which in turn provide fertilizer for the crops. Further, all the waste foliage from the plants is ground up and then fed to the shrimp. It's essentially a zero net carbon way of producing plants and animals simultaneously. I copied this brilliance from Costa Rican palm and shrimp farmers, but have never seen it implemented in a greenhouse before.





My Nefarious Inventive Ideas

In 2016 I had become frustrated and upset with the United States and Canadian governments total lack of interest in my seaweed-to-fuel ideas and decided to write technology which would at the very least upset them. Also, I am completely against the drug war and want treatment and getting a job focused legalization. The war on drugs was lost a long time ago.

So, I first wrote the fundamental concept of a communication system designed to completely thwart not only interception of encrypted traffic but also the ability for the observers to determine who is communicating with whom. You see, platforms such as WhatsApp and Signal use very strong encryption which is peer to peer (P2P), but it is relatively easy for an observer to see who is communicating to whom and how often. For example, a person communicating with many people often may be concluded to be a command centre or a person of authority.

My inventive idea is called *Mass Communication System for Defeating Intelligence Agency Traffic Analysis*, which is basically a gambling website designed to hide communication of covert networks through a sea of gamblers, while sending false and delayed traffic between non-targets to make traffic analysis almost impossible. If El Chapo had been using such a system rather than a Blackberry, it is very unlikely he would have not been caught by the tracing of his communications to an apartment in Mazatlan. The system would be remarkably better than Encrochat, because most of the people that would use the system would be gamblers and gamers. Encrochat was a network exclusive to criminals.

I also wrote a novel method for smuggling anything dissolvable through small horizontal pipelines, which would include dissolving cocaine and crystal methamphetamine in hot water and then pumping it through a 1-2” pipeline underneath the United States-Mexico border. It’s easy to horizontally drill underneath a border, and the plastic pipeline would be almost completely undetectable to ground penetrating radar if drilled deep enough. I actually sent these two aforementioned inventions to the United States department of Justice to taunt them.

I also invented a novel method for producing ephedrine from easy to obtain equipment and ingredients, whereas ephedrine is a precursor to methamphetamine. If you have ever watched the television show *Breaking Bad*, you may remember Jesse Pinkman and Mr. White extracting "pseudo" from decongestants, where "pseudo" is also known as pseudoephedrine.

If interested, you can find this detailed invention here:

https://www.ic.gc.ca/opic-cipo/cpd/eng/patent/3139437/summary.html?query=bily+jonathan&type=basic_search

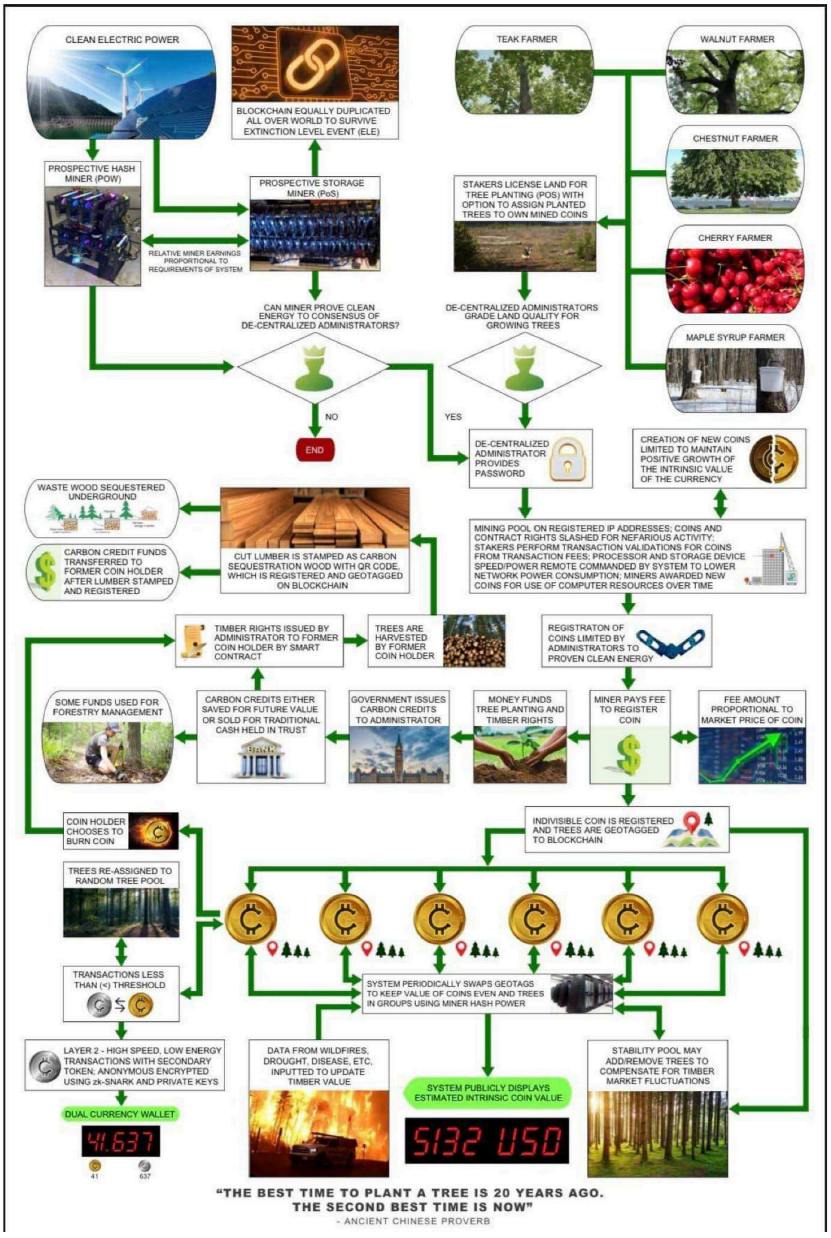
But the invention which upset the United States government the most was a cryptocurrency system which would allow nations to monetize the planting of trees, as a method to fight climate change by absorbing large amounts of carbon dioxide. So, timber rights of existing trees as well as new, planted trees and their carbon credits can be used to essentially "back" the cryptocurrency system, much like gold was once used to back the United States dollar. This is accomplished by geotagging the location of the trees to a blockchain, the tree species, the age of the tree, size, etc. A coin holder can choose to "burn" one or more coins, which triggers the issuance of timber rights.

I had invented the system while vacationing in Costa Rica, but perfected the technological concept at a UC Berkeley course in blockchain technology after filing three patent applications in relation to. I didn't really understand at the time that I had invented a way for Russia to circumvent United States sanctions in relation to the Ukraine war. Canada is the second largest nation in the world capable of planting trees, as well as having the largest forests. This was my focus. Solving climate change and Canada. A flow chart of the cryptocurrency system is shown on the next page.

What I didn't know at the time was that BRICS (Brazil, Russia, India, China, South Africa, UAE, Saudi Arabia, Ethiopia, Egypt, and Iran) have of March 4, 2024, committed to developing a cryptocurrency system with the intent of defeating the United States dollar as

global reserve currency, as well as defeating United States sanctions designed to limit the ability of Russia to fight the Ukraine war.

At the time of writing this book, the Kremlin announced that BRICS is implementing a cryptocurrency system stablecoin to facilitate trade outside of the US dollar. On March 30, 2024, the Chinese government announced that the Shanghai Treemap Blockchain Research Institute is developing the BRICS blockchain technology. Basic math tells me that many of the BRICS nations will be able to trade trillions of dollars of trees on a blockchain, without having to cut down any trees for many decades, and possibly centuries. The best BRICS coin may be a combination of trees and gold.


CLEAN ELECTRIC POWER
BLOCKCHAIN EQUALLY DUPLICATED ALL OVER WORLD TO SURVIVE EXTINCTION LEVEL EVENT (ELE)
TEAK FARMER
WALNUT FARMER
CHESTNUT FARMER
CHERRY FARMER
MAPLE SYRUP FARMER
PROSPECTIVE HASH MINER (POW)
PROSPECTIVE STORAGE MINER (PoS)
RELATIVE MINER EARNINGS PROPORTIONAL TO REQUIREMENTS OF SYSTEM
STAKERS LICENSE LAND FOR TREE PLANTING (POS) WITH OPTION TO ASSIGN PLANTED TREES TO OWN MINED COINS
CAN MINER PROVE CLEAN ENERGY TO CONSENSUS OF DE-CENTRALIZED ADMINISTRATORS?
DE-CENTRALIZED ADMINISTRATORS GRADE LAND QUALITY FOR GROWING TREES
NO
END
YES
DE-CENTRALIZED ADMINISTRATOR PROVIDES PASSWORD
CREATION OF NEW COINS LIMITED TO MAINTAIN POSITIVE GROWTH OF THE INTRINSIC VALUE OF THE CURRENCY
WASTE WOOD SEQUESTERED UNDERGROUND
CUT LUMBER IS STAMPED AS CARBON SEQUESTRATION WOOD WITH QR CODE, WHICH IS REGISTERED AND GEOTAGGED ON BLOCKCHAIN
CARBON CREDIT FUNDS TRANSFERRED TO FORMER COIN HOLDER AFTER LUMBER STAMPED AND REGISTERED
MINING POOL ON REGISTERED IP ADDRESSES; COINS AND CONTRACT RIGHTS SLASHED FOR NEFARIOUS ACTIVITY. STAKERS PERFORM TRANSACTION VALIDATIONS FOR COINS FROM TRANSACTION FEES; PROCESSOR AND STORAGE DEVICE SPEED/POWER REMOTE COMMANDED BY SYSTEM TO LOWER NETWORK POWER CONSUMPTION; MINERS AWARDED NEW COINS FOR USE OF COMPUTER RESOURCES OVER TIME
TIMBER RIGHTS ISSUED BY ADMINISTRATOR TO FORMER COIN HOLDER BY SMART CONTRACT
TREES ARE HARVESTED BY FORMER COIN HOLDER
REGISTRATON OF COINS LIMITED BY ADMINISTRATORS TO PROVEN CLEAN ENERGY
SOME FUNDS USED FOR FORESTRY MANAGEMENT
CARBON CREDITS EITHER SAVED FOR FUTURE VALUE OR SOLD FOR TRADITIONAL CASH HELD IN TRUST
GOVERNMENT ISSUES CARBON CREDITS TO ADMINISTRATOR
MONEY FUNDS TREE PLANTING AND TIMBER RIGHTS
MINER PAYS FEE TO REGISTER COIN
FEE AMOUNT PROPORTIONAL TO MARKET PRICE OF COIN
COIN HOLDER CHOOSES TO BURN COIN
INDIVISIBLE COIN IS REGISTERED AND TREES ARE GEOTAGGED TO BLOCKCHAIN
TREES RE-ASSIGNED TO RANDOM TREE POOL
TRANSACTIONS LESS THAN (<) THRESHOLD
SYSTEM PERIODICALLY SWAPS GEOTAGS TO KEEP VALUE OF COINS EVEN AND TREES IN GROUPS USING MINER HASH POWER
LAYER 2 - HIGH SPEED, LOW ENERGY TRANSACTIONS WITH SECONDARY TOKEN; ANONYMOUS ENCRYPTED USING zk-SNARK AND PRIVATE KEYS
DATA FROM WILDFIRES, DROUGHT, DISEASE, ETC, INPUTTED TO UPDATE TIMBER VALUE
SYSTEM PUBLICLY DISPLAYS ESTIMATED INTRINSIC COIN VALUE
STABILITY POOL MAY ADD/REMOVE TREES TO COMPENSATE FOR TIMBER MARKET FLUCTUATIONS
DUAL CURRENCY WALLET
41.637
5132 USD
"THE BEST TIME TO PLANT A TREE IS 20 YEARS AGO.
THE SECOND BEST TIME IS NOW"
- ANCIENT CHINESE PROVERB

I want to be clear on something now. The United States, Canada, Mexico, Europe, parts of South & Central America can all release their own coin, and in fact blew a two year head start I gave them and the U.S. tried to kill me instead. And what I have created is an economic war to grow trees. But it just so happens this war I hope lasts throughout history, because a war to suppress carbon is the only kind of war we want to have on this small planet we call Earth.

Now, this system was designed to compete directly against the United States dollar for global reserve but also to fight climate change. You see, United States dollars fund war and the superiority of a country that cares more about its military might than it does about preserving the planet for future generations.

My program facilitator at UC Berkeley was Dr. Maura O'Neill, who states in her biography In 2009 she was appointed by President Obama to be the first Chief Innovation Officer of the US Agency for International Development. Maura served as a member of the White House Innovation Cohort assisting in innovation across the federal government. Prior to joining the Administration, she served as a Chief of Staff in the U.S. Senate.

The program started on September 4, 2021, and on September 21, 2021, after speaking to Maura live on Zoom, I contacted Berkeley Haas and asked if Dr. O'Neill and her team were for hire as consultants, while sending over an earlier version of the previous flowchart.

Instead of getting a response from her or the university, my Facebook was hacked that evening in a sophisticated manner. The hackers used a password reset code to login to my Facebook account. Records show they requested the password reset from Hanoi, Vietnam, and then logged in from Vancouver, Washington.

Since all my iCloud devices were in my possession, and all of them required multi-factor authentication to login, the only explanation is that the hackers were able to intercept my password reset code from an unencrypted email traveling from a US server. This appears to be the work of the PRISM program operated by the NSA, made public by Edward Snowden.

I started to notice several days later that I was being followed to and from my Ethereum cryptocurrency farm, but thought I was being followed by RCMP. I am so accustomed to surveillance that I have at times learned to ignore them, especially if I wasn't engaged in anything illegal or going anywhere sensitive. A photo of my messy cryptocurrency "farm" is below. I had to rebuild it many times to get every card online without fail. I rebuilt many of these cards with better cooling capabilities, as well as the fans:

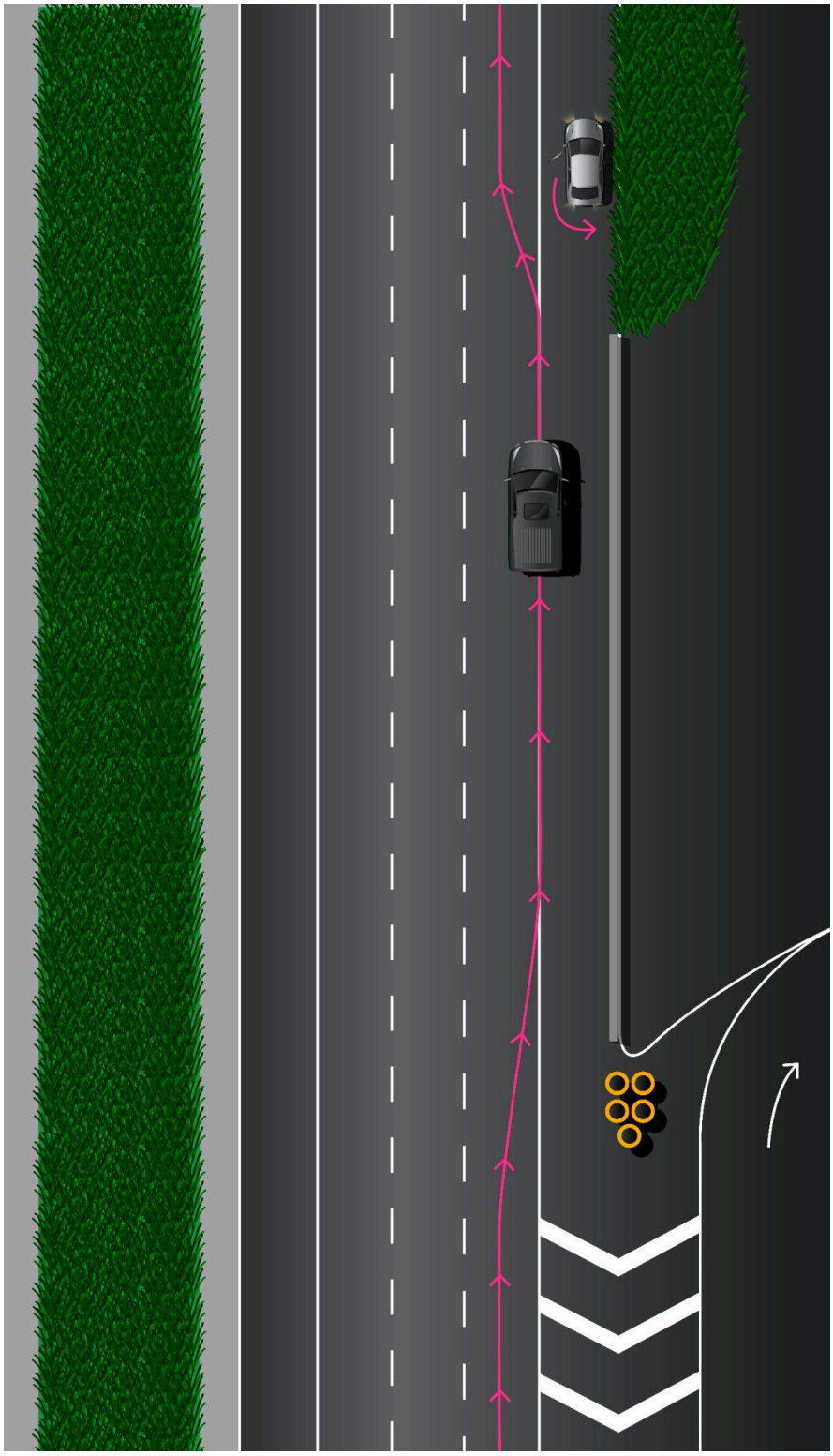
But what I didn't realize at the time was that the vehicles following me were in fact a "hit" team, and quite literally a hit team. Southbound traffic on 200th street in Langley had come to a complete stop due to a car accident several blocks ahead, wherein several people were engaging in U turns to take alternative routes.

I activated my turn signal to indicate to everyone I was about to perform a U turn as well, after about 8-10 vehicles ahead of me had engaged in U turns. As I was performing the U turn, a vehicle about 4 car lengths back accelerated as fast as he could right into me, colliding with such force as to snap the tie rod in my steering and giving me a concussion. Had I been a second earlier, he would have killed me. The driver attempted to take off, but he had nowhere to go so I was able to confront Alberto Alfonso. He wasn't drunk and seemed to know exactly what he had done. Nonetheless, the police did not come and we exchanged information and he left, but my vehicle was undriveable.

The witness behind me stated to the insurance company, "she was in the line of cars - there were multiple cars making a U-turn ahead of her - insured was making a safe uturn as no traffic north bound 2 cars ahead of her - as insured started to pull out to make the turn tp pulled out from the line of traffic about 2-3 cars back from her and crosses a double solid line and was speeding up when he hit insured - insured did not stand a chance and no way to know tp would pull out to pass on a double solid".

The Second Attempt

The second attempt was about a month later in November, while I was using my older 2006 BMW as backup and waiting for my newer 2015 BMW 335 xDrive to be fixed. I had a slight problem and pulled over to the side of the freeway, but I was completely off the freeway on the shoulder. As I exited the vehicle I witnessed a black SUV lined up perfectly with me for a kill shot while accelerating, as the vehicle was half on the road and half on the shoulder at full speed with the shoulder line in the centre of the SUV. I reacted quickly and ran around the back of my vehicle, whereas the driver of the black SUV abandoned his/her shot and swerved back into the traffic lane, barely missing myself and my vehicle. No possibility of getting a plate.



The Third Attempt

The third attempt was several days later, where I was grocery shopping at Walmart. My BMW appeared to be disabled and wouldn't start, with the starter motor working but seemingly no fuel coming to the engine. I found out later from a mechanic that the wiring to the fuel pump had become disconnected. On purpose or by coincidence has never been established. As such, I had to pull all my groceries out of the vehicle and call a taxi.

When I arrived home I placed all my groceries away and fell asleep. The next day I started cooking a homemade tomato sauce, and had been working on my computer. I came over to the sauce and stuck my finger in, then into my mouth. A few moments later, I started hacking and coughing, foaming at the mouth, and having seizures while studdering. I called 911 and the fire department arrived, where I was crawling on the ground around the garage.

An ambulance was not available, so my friend Shelley came and drove me to the Langley Memorial hospital. The hospital staff performed blood and urine tests, but they could not determine what I had ingested. I had a seizure on the waiting room floor. The psychiatrist spoke with me and then released me after the effects subsided.

The Fourth Attempt

Attempt number four December 2, 2021, was in a parking lot where my mailbox is located. As soon as I exited my vehicle I could hear the roar of a 5.7L Hemi, and flipped around to see a Ram pickup truck coming straight at me. The driver had red hair and a red mustache, also wearing sunglasses, which I now believe was a disguise. He could see I was ready to jump behind the adjacent vehicle, so he turned hard to the right causing his wheels to squeal.

There was only a license plate holder on the back of the vehicle, like a car dealership uses. The vehicle sped off quite quickly, wherein I tried to obtain video footage from the Korean grocery store but discovered there were no outside cameras.

At this point I had enough and was determined to fight back. I fortified my house with an alarm and video surveillance system, barricaded the windows and doors, and decided to launch a protest of the United States embassy in Vancouver using the Anonymous hacker group as a front. You see, anyone can say they are Anonymous. My idea was to create so much attention to the fact that the US is trying to assassinate me, that they would have to stop.

So, I created the following Facebook pages and posts to build an audience of potential protesters. I also ordered from China 25,000 Anonymous masks with Canadian maple leafs on the cheeks. I produced the entire production from booking the green room, props, costumes, actors, camera operator and a cinematographer from International Alliance of Theatrical Stage Performers (IATSE Local 669 of Hollywood), he was the man for the cool crane shot to the Anonymous desk. It was an honour to work with that crew.

The Fifth Attempt

I did not have any other attempts for several months, although I stayed bunkered down and did not present them the opportunity. I then traveled to Spain to visit my girlfriend Patty, who was well aware of the attacks.

Nothing happened for a month and I started to loosen up, thinking perhaps my attackers wouldn't try anything in Spain. Then on April 24, 2022, myself and Patty were in a small grocery store on a Sunday. I was in a corner near a sliding door refrigerator, when I noticed a woman standing in the corner in a blue long sleeve jacket and wearing blue gloves. This was unusual because the weather was quite warm, approaching almost 30 degrees Celsius. However, as soon as I tried to get past her she grabbed me with both hands, with one hand on my back.

The woman pulled herself around me and said in a clear American accent, "Excuse me". I thought this woman was being overly "frisky", but at the same time I was concerned why this woman grabbed me so aggressively. I noted that she didn't purchase anything and promptly left the store.

I woke up that evening to use the washroom and felt an itch on my back. I could feel a lump developing where the woman had grabbed me, but thought perhaps I had been bitten by a mosquito. In the morning when I woke up the lump had gotten bigger, so I applied a topical cream of benzoyl peroxide and clindamycin antibiotic.

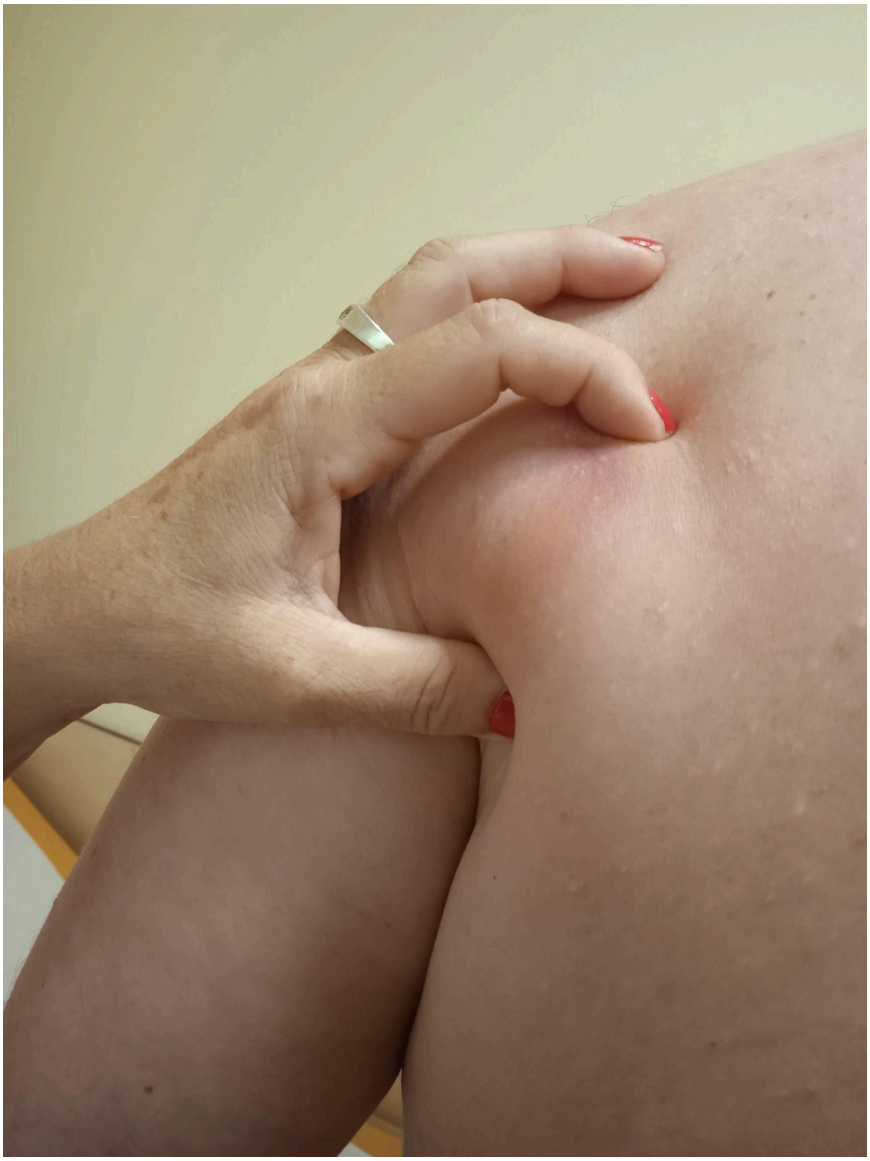
I spent the rest of the day finishing off a patent application for my winter greenhouses, then the next day went to the hospital as I was coming to the realization that this woman was responsible for the large lump on my back.

After several visits to the hospital in Malaga, Spain, where doctors prescribed numerous antibiotics both topical and oral, I explained to the doctors that I believed I was intentionally inoculated by an agent of the United States because of a cryptocurrency system I invented.

Although the doctors joked among themselves, we discussed diseases that I might have been infected with that would kill me quickly.

We arrived at the conclusion that if I was infected with rabies secondary to the bacterial infection, that I would die a few months later after the disease showed symptoms. As such, I also went through several injections for rabies including hemoglobin and vaccine shots.

The Spanish police took the matter very seriously. We were amazed to find out this grocery store with these state of the art looking cameras wasn't actually recording any video… Are you fucking kidding me?? Or is the CIA so good that they can kill cameras from recording in minutes? We'd never been to this store.

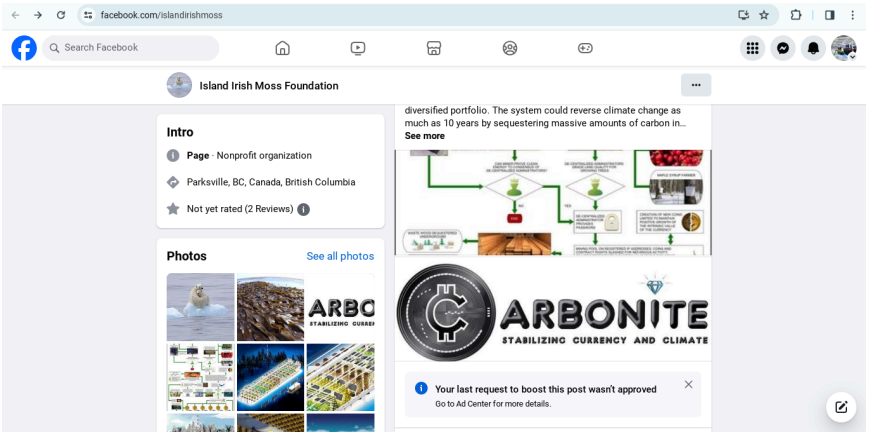


Fortunately, after about three weeks the abscess cleared up and there hasn't been any long term effects. I also was tested for heavy metal poisoning such as mercury, but all tests were negative.

Facebook the U.S. Government Puppet

While bunkered down with Patty in Malaga, Spain, I began editing all the videos we had made on an iMac using Final Cut Pro, then we commissioned a German actress and a recording studio to finish all the voice overs. After the videos were finished, I created the “Anonymous Canada” facebook page and started posting the videos. After approval of the promotions and uploading my ID to Facebook to prove that I was a Canadian advertising Canadian content, the promotions started and I had immediate popularity getting hundreds of Likes.

However a few days later Facebook suspended all my promotions, claiming because I was running Canadian political content/social issues from Spain. This was done even though there was no such rule about a Canadian citizen running Canadian social issue ads outside of Canada.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Anonymous Canada

7.3K likes • **7.4K** followers

The Canadian movement against police and government corruption, the drug war, residential schools

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Anonymous Canada

Jun. 10, 2022 ·

The world's richest people are watching this world's ecosystem collapse, having the time of their lives and not doing much to solve the problem. We promise education and a laugh.

https://www.youtube.com/watch?v=SGtokSg80i4&t=3s

youtube.com

Billionaires Not Solving Our Problems

139

23 comments • 38 shares

Like Comment Send Share

Anonymous Canada

Jun. 24, 2022 ·

The CIA are currently engaged in illegal covert paramilitary operations in Canada, including several assassination attempts to which the R.C.M.P. are intentionally turning a blind eye. The CIA and the U.S. democratic government routinely allow illegal killings all over the world on a regular basis.
https://www.youtube.com/watch?v=spl-lbUFVrA&t=5s

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CIA Killings in Canada

307

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Jun. 10, 2022 ·

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Stopping the Fentanyl Crisis

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ANONYMOUS CANADA

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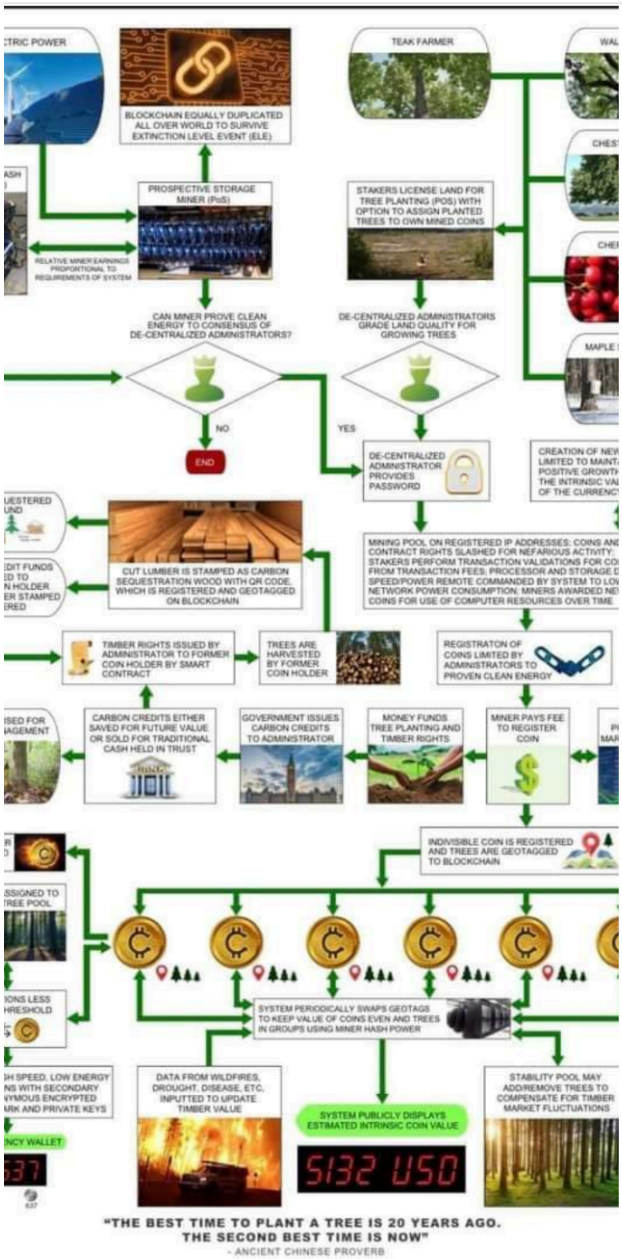
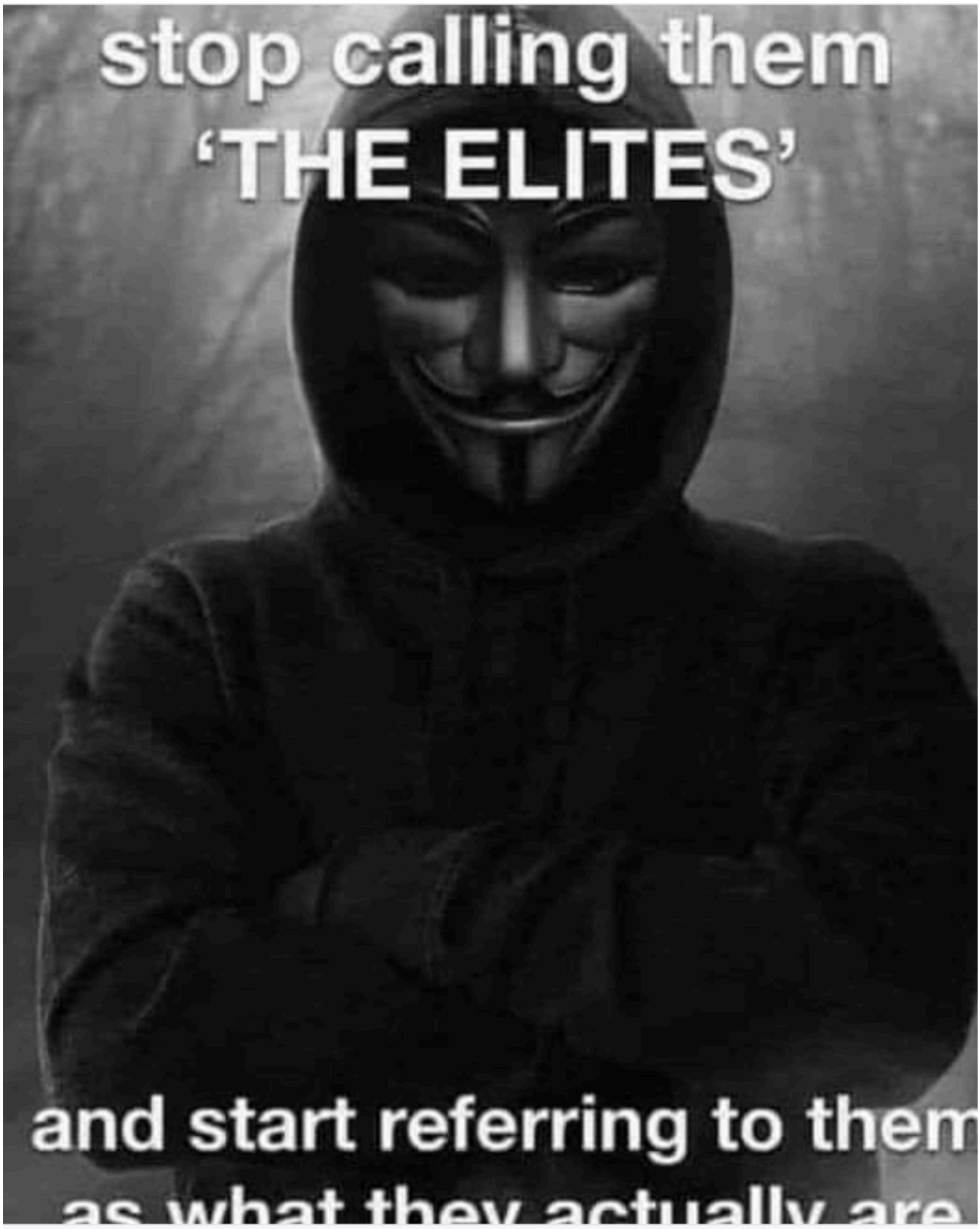
491 78 comments • 226 shares

in multiple currencies invested into a diversified portfolio. The system could reverse climate change as much as 10 years by sequestering massive amounts of carbon into valuable wood based on vertical farming while producing fruit 🍎 and nuts 🌰 .


BLOCKCHAIN EQUALLY DUPLICATED ALL OVER WORLD TO SURVIVE EXTINCTION LEVEL EVENT (ELE)
TEAK FARMER
PROSPECTIVE STORAGE MINER (PoS)
STAKERS LICENSE LAND FOR TREE PLANTING (POS) WITH OPTION TO ASSIGN PLANTED TREES TO OWN MINED COINS
CAN MINER PROVE CLEAN ENERGY TO CONSENSUS OF DE-CENTRALIZED ADMINISTRATORS?
DE-CENTRALIZED ADMINISTRATORS GRADE LAND QUALITY FOR GROWING TREES
NO
END
YES
DE-CENTRALIZED ADMINISTRATOR PROVIDES PASSWORD
CUT LUMBER IS STAMPED AS CARBON SEQUESTRATION WOOD WITH QR CODE, WHICH IS REGISTERED AND GEOTAGGED ON BLOCKCHAIN
TIMBER RIGHTS ISSUED BY ADMINISTRATOR TO FORMER COIN HOLDER BY SMART CONTRACT
TREES ARE HARVESTED BY FORMER COIN HOLDER
REGISTRATON OF COINS LIMITED BY ADMINISTRATORS TO PROVEN CLEAN ENERGY
CARBON CREDITS EITHER SAVED FOR FUTURE VALUE OR SOLD FOR TRADITIONAL CASH HELD IN TRUST
GOVERNMENT ISSUES CARBON CREDITS TO ADMINISTRATOR
MONEY FUNDS TREE PLANTING AND TIMBER RIGHTS
MINER PAYS FEE TO REGISTER COIN
INDIVISIBLE COIN IS REGISTERED AND TREES ARE GEOTAGGED TO BLOCKCHAIN
SYSTEM PERIODICALLY SWAPS GEOTAGS TO KEEP VALUE OF COINS EVEN AND TREES IN GROUPS USING MINER HASH POWER
DATA FROM WILDFIRES, DROUGHT, DISEASE, ETC, INPUTTED TO UPDATE TIMBER VALUE
SYSTEM PUBLICLY DISPLAYS ESTIMATED INTRINSIC COIN VALUE
$132 USD
STABILITY POOL MAY ADD/REMOVE TREES TO COMPENSATE FOR TIMBER MARKET FLUCTUATIONS
"THE BEST TIME TO PLANT A TREE IS 20 YEARS AGO. THE SECOND BEST TIME IS NOW"
- ANCIENT CHINESE PROVERB

3

2 comments



Opens in Messenger

Send message

1K

82 comments • 336 shares

Anonymous Canada

Jun. 10, 2022 ·

Trudeau is not our dictator!

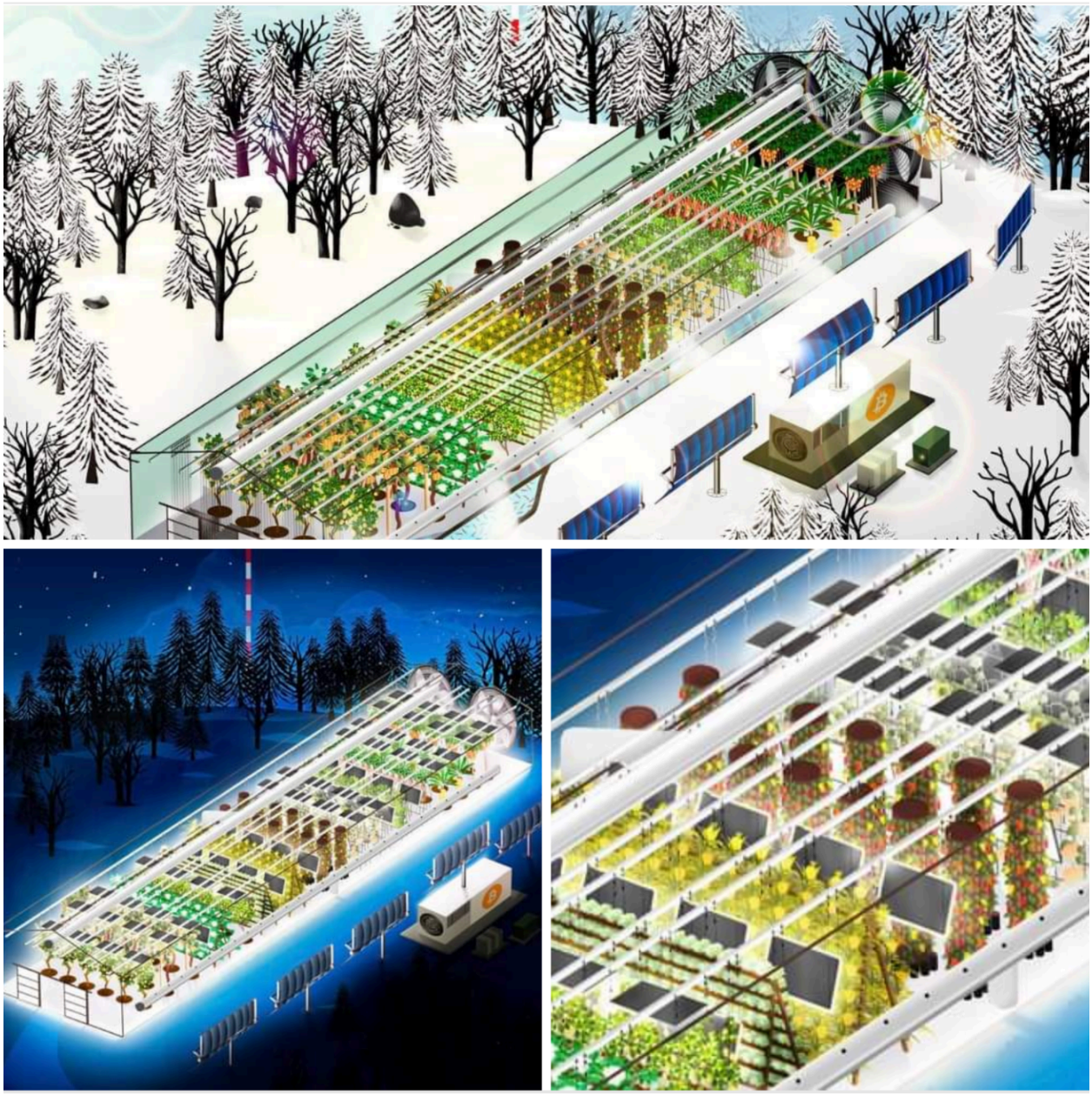
OPENS IN MESSENGER

Send message

31

3 comments • 8 shares • 656 views

automatically deployable light moving system. By using waste energy from a crude oil well, geothermal, or any other source to power the lights, we can dramatically lower both the price and the carbon footprint of the vegetables 🥕 and shrimp 🍤



526 74 comments • 83 shares

The United States Disposition Matrix

The Disposition Matrix, informally known as a kill list, is a database of information for tracking, capturing, rendering, or killing suspected enemies of the United States. Developed by the Obama administration beginning in 2010, it goes beyond existing kill lists and is intended to become a permanent fixture of U.S. policy.

Though White House, National Counterterrorism Center (NCTC), and CIA spokespeople have declined to comment on the database, officials have stated privately that kill lists will expand "for at least another decade", if not indefinitely. One official stated "it's a necessary part of what we do". Paul R. Pillar, the former deputy director of the CIA's counterterrorism center, has stated, "We are looking at something that is potentially indefinite".

The creation of the Disposition Matrix database is part of an effort embraced by White House counterterrorism adviser John O. Brennan to codify the targeted killing policies developed by President Barack Obama.

The Disposition Matrix database catalogs biographies, locations, associates, and affiliations of suspects. It also catalogs strategies for finding, capturing, or killing suspects, or subjecting them to extraordinary rendition.

The database eliminates the prior system of dual scrutiny by both The Pentagon and the National Security Council, instead using a "streamlined" system in which suspects were designated by multiple agencies and ultimately presented to Brennan. The head of the Joint Chiefs of Staff, responsible for carrying out orders to kill suspects on the list, no longer contributes to the decision of whether or not to kill them. Instead, the National Counterterrorism Center plays a greater role in determining targets, which they generate at the request of the White House.

A former senior CIA official told Al Jazeera on the condition of anonymity that “the CIA does not decide who to kill”. “The legal process makes it very difficult for the CIA to kill

someone just because the CIA thinks he is a bad guy," he said. Most of the CIA's targeted killing operations involve drone strikes and are based on authorisation by the president.

Speaking to Al Jazeera, Robert Baer, a former CIA operations officer, said: "The White House must sign off on any targeted killing operation, especially if it is a high-value target. "It is a different case, however, if the operation is conducted in battlefields or during wars like in Afghanistan or Iraq, in which case field officers have more legal room to do their targeted killing."

In Mossad, the legality of any assassination of any target is much more liberal and does not involve legal constraints similar to those followed by the CIA, according to sources familiar with the process. "It is part of their national policy," Baer said, referring to the Israeli targeted assassination policy.

One primary difference between the Mossad and the CIA appear to be the length at which the Mossad will go in carrying out their attacks, as well the risks and exposure the Mossad are willing to endure. In a Youtube interview, ex-CIA agent states the Mossad will go to any length to protect Israelis, but this is not true of the CIA. Oppositely, the CIA is known to murder United States citizens opposed to their regime, one prime example being the five failed drone missile strikes on American journalist Abdul Kareem Billal.

Billal later came back and sued the United States government and director of the CIA in federal court, but the case was dismissed for various reasons including lack of evidence. The court stated, *"Without access to the privileged information, Mr. Kareem is unable to establish whether he has targeted by the lethal force or what information was considered in reaching the alleged decision to target him. Mr. Kareem is "incapable of demonstrating that [he has] sustained a violation of" his constitutional rights without the information".*

The Elevator Hit Team

Elevators are an ideal place to carry out a secret assassination, as there are generally no cameras, elevators are small confined areas, and the assassins are able to position themselves in close proximity with their intended targets ("The mark").

Thanks to Facebook it was necessary to fly back to Canada as quickly as possible, so presumably I could promote the Anonymous Canada Facebook page and continue with my plan of a mass protest in Vancouver. Patty and I went to the mall in Malaga and bought a computer, where we set up new Gmail accounts and purchased airline tickets for the next day. By using the new accounts on a fresh device, we believed the CIA wouldn't know when and where I was leaving.

I packed up and we rushed off to the airport the next morning. Now I'm not sure if it was a coincidence or intentional, but the plane was unable to obtain authorization to take off and was grounded for almost 2 hours. I could hear the pilot from behind the door shouting obscenities in Spanish as well as "No entiendo!", which means "I don't understand".

When we arrived in Lisbon, Portugal, we had already missed our connecting flight and had to be rerouted to Toronto. When the airline booked new tickets for a large group of Canadians, I was told that my ticket had been rerouted to Amsterdam. Of course, I was the only passenger this happened to. The airline staff were completely without any explanation, but clearly this reroute was the result of a NSA hacker.

When we arrived in Toronto I quickly discovered one of my bags was missing. Bags always travel together, so it made no sense that one bag arrived and the other was missing unless it was stolen out of customs. My hypothesis is that the delay of the first aircraft was to give the CIA enough time to arrive in Lisbon, then board the second aircraft in the forward seating and walk out with one of my bags before I had a chance to retrieve it. The bags were not on a carousel but rather already sitting there by the time I had gone through primary customs.

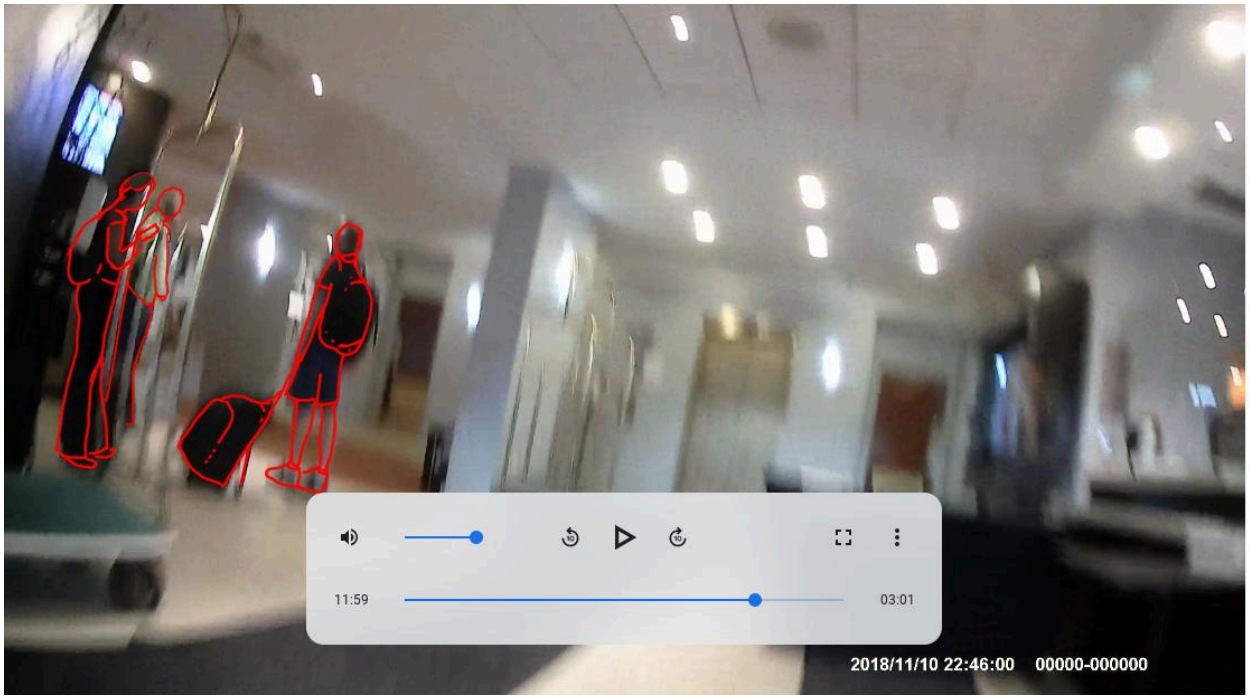
As a result, I missed my connecting flight and had to seek accommodations in Toronto. Nonetheless, I tried promoting the Facebook posts almost immediately and was surprised to learn that they were all rejected again for being outside of Canada, even though I had secured a Toronto SIM card, had geolocated myself on a Facebook post to Toronto, and was using a Canadian IP address for accessing my Facebook account.

I secured an AirBNB for the night, then returned to the Toronto airport the next day to take the matter up with Air Portugal. I knew the airline was probably not at fault for this matter, but I was going to hold them responsible regardless. They didn't have a flight available to Vancouver until the next day, so the airline paid for me to check into the local Marriot hotel for the evening.

After I checked into my room I went to the elevator and entered with this petite woman that appeared to be wearing a wig and large glasses. I greeted her to which she didn't respond, and then she started frantically routing around in her purse behind her for something. Her behavior made me immediately suspicious, where she now appeared to be clutching something in her purse with her right hand.

When the elevator came down to the main floor she tried to look back into her purse and was not interested in exiting the elevator. I was suspicious and stood there watching her. When she looked at me I motioned for her to exit the elevator first, to which she then apologized to me, took her hand off whatever she was holding in her purse, and exited the elevator.

At this time my spidey senses were going off and I thought that I was being set up for something to occur in an elevator. So, I returned immediately to my room and grabbed a small body camera I had purchased in Spain before leaving. I then went outside for a bit and had a cigarette in the parking lot, giving time for my enemy to set up whatever they intended to set up.



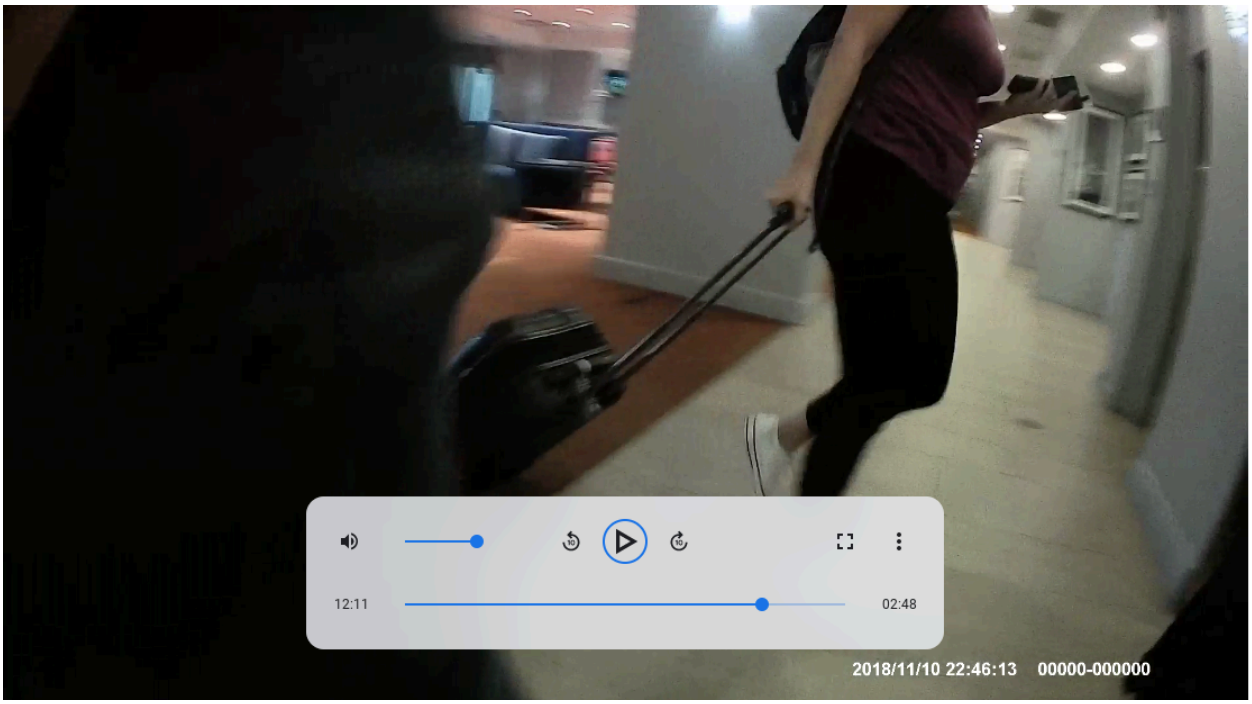
I set the bodycam to record and slowly walked into the hotel entrance, where I could see two men and a woman who appeared to be just standing around. The two men were chatting and the woman was leaning back against the ice machine, typing away on a large cell phone.

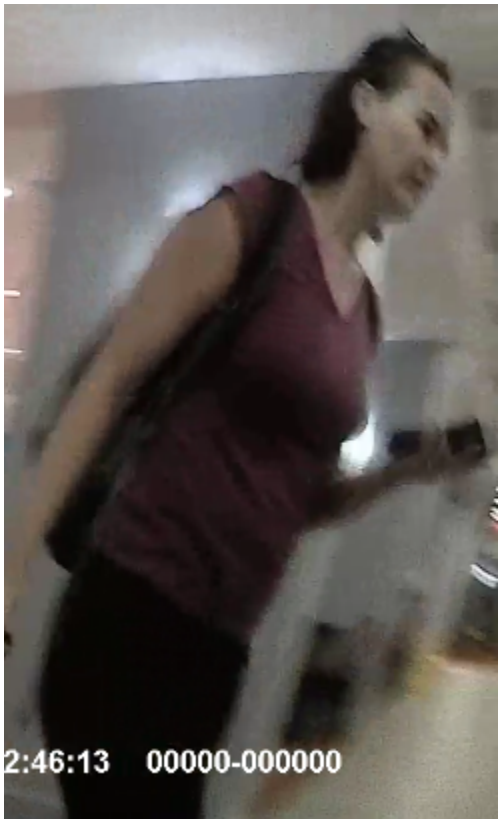
I swear I heard one man say to the other softly, “There he is”. I took my time walking over the elevator and pressed the call button. Instantaneously, I could hear suitcase wheels rolling and before I could even get into the elevator, the three were already pushing their way in so I would be in the elevator with them. I backed off immediately and used the bodycam to capture as much footage as I could.

Now I’d like you to look closely at the screenshot view of the woman with the rather large cell phone. Can you see what appears to be a black antenna on the phone? Now let me ask you a question - how many years has it been since you’ve seen a cell phone with an antennae? 10 years? 15 years?

I believe the cell phone was the assassination device. The fake antenna is likely a spray nozzle, wherein they would have sprayed me from behind with an aerosol of poison just as I was

exiting. Most of the poison would have exited the elevator with me, and the assassins would have taken an antidote just to be safe. I would have had a heart attack and died in the hallway.

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That night in the hotel was a scary night indeed. As usual, I placed a glass on the inside door handle so there was no possibility of someone sneaking in while I was sleeping and even slept on the couch in the suite instead of the bed.

AIR BNB #1

The first AirBNB I ended up in was a large house in Vancouver. The first night was mixed with a few different people, but the night after I started meeting Americans. I was always protecting the doorway at night with a glass balanced on the handle, which I believe is impossible to defeat. I also had Ring cameras set up in the room, but those can be knocked out with a WIFI jammer easily. Wifi Jammers are illegal, but simple and cheap devices that will wipe out a Ring wireless camera in one second. I also noticed that a windowless van was parked out front of the house, that looked perfect to me as a command post and as means of extraordinary rendition, as in kidnapping me and holding me in the shittiest detention I would ever want to live.

When it became time for me to leave, this southern American accented woman came out of her room, looked at my bags and exclaimed surprised, “Oh, you are leaving!”. I stared at this woman with straight suspicion, because I had never interacted with her or seen her even once. Why would she be concerned at all that I’m leaving?

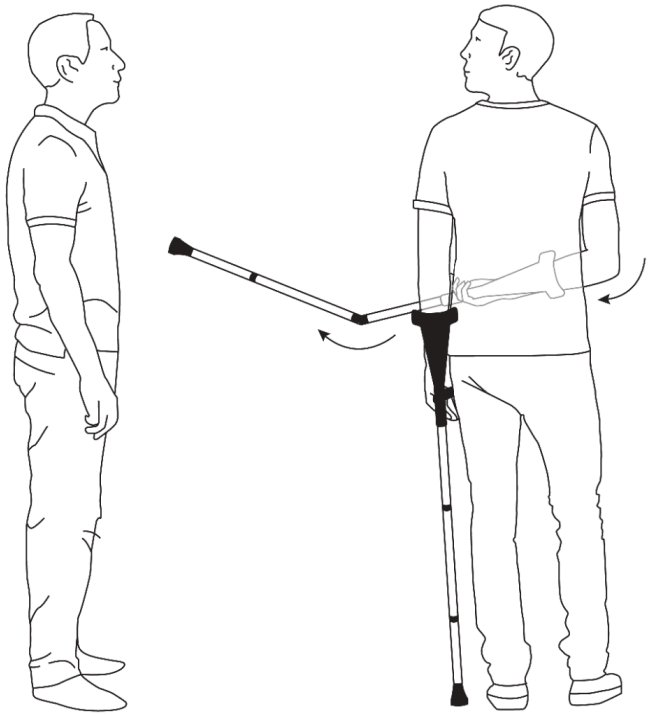
She knew she was on the spot and sputtered out, “because we were going to give you some food to take”. I looked at her suspiciously and perhaps not convincingly said, “How nice of you. Thank you”. This tall mid aged brunette, medium hair length, retreated immediately to her room on the main floor. Who offers a complete stranger food, other than a homeless person? Little did I know I was about to meet the scariest person I’ve ever met.

Mr. Crutch

I had taken an Uber to the nearest Skytrain station and was moving both my suitcase and my briefcase into the subterranean station. After getting onto the train I became occupied with my cell phone, but noticed an older man with crutches enter the train at the next station and sit down adjacent to me. He was well tanned with gray hair, and had a shirt that said something to the effect of, “If you think I’m weird, you should meet my family”. He also had a water bottle fastened to his chest.

Because I was engrossed by my cell phone, I missed the fact we had reached the last station and that the train was now heading back the opposite direction. I turned to a man sitting next to me and asked if that was the last stop, to which he confirmed. All of a sudden Mr. Crutch addressed me and said, “Oh, I must have missed that as well”. Mr. Crutch then asked me, “Where are you heading?”, to which I responded, “Surrey”.

Myself and Mr. Crutch both exited the train at the same time. Although I was suspicious of him, I didn’t believe that an assassin would try anything in what I believed was an environment where video surveillance coverage was everywhere. However, as we were walking side by side from one side of the platform over to the train tracks on the opposite side, all of a sudden I saw him use some small joystick to bend his crutch like a weapons turret. He was trying to get me to look in the opposite direction by saying, “There’s the exit”, while he lined up the now bent crutch with my centre mass.



All of a sudden I'm staring down the barrel of some type of a weapon pointed right at me. Instead of looking the other way like Mr. Crutch was trying to have me do, I shouted in fear and jumped backwards, almost tripping over myself. He looked at me somewhat surprised and said, "Oh!". Mr. Crutch then raised his right, bent crutch up into the air as to seemingly indicate he was not going to shoot me. This picture of a soldier best illustrates what I am referring to.

Now I didn't understand at the time exactly what this weapon was, but I now believe that had I turned my head as he was attempting to direct me to do, he would have raised his device and sprayed the back of my head with hydrogen cyanide or some other toxic gas that would have

caused me to have a heart attack right on the platform. I would have had no idea what caused me to have a heart attack.

Hydrogen cyanide has been used by KGB assassins for some time, as the gas dissipates long before an autopsy can be performed. The CIA has also admitted during congressional hearings that they use a frozen dart composed of a shellfish toxin, which also mimics a heart attack but is undetectable during a conventional autopsy. I also believe the water bottle secured to his chest was probably an antidote, which assassins usually carry with them when poisoning a target just in case the assassin accidentally poisons himself/herself.

I photographed Mr. Crutch as he was texting someone almost immediately, probably to report back to the command post that the operation had failed. In this photo you can clearly see that the left crutch is bent, while the right crutch is straight. I can tell you I have researched crutches and that no crutch bends in the manner I have described, nor would the crutch that bends be of any particular use to a cripple.

Designated Waiting Area

I later contacted transit police and had them obtain the video footage at the station, but discovered that the centre area of the platform had no video coverage other than the elevator. Of course, Mr. Crutch was well aware of this in advance. I deeply regret that I had not started shouting “assassin!” and called 911, as the police would have been able to identify the device and arrest him. Unfortunately, I was so terrified I was more interested in getting as far away from this guy as possible and boarded the next train.

If you look closely at the photo of Mr. Crutch, he appears to have a wrinkly, tanned appearance. I believe it is very possible this is a disguise, to which the CIA are famous for. In fact, former CIA agent Jonna Mendez has bragged that she met with president George H.W. Bush while wearing a disguise as a younger woman, to which the president was completely oblivious to.

After changing trains, I went to the Douglas College library in New Westminster and finished polishing my lawsuit against Meta Platforms, Inc. (Facebook). I then walked over to the Supreme Court of British Columbia and filed the lawsuit. After scanning the filed documents and emailing to a process server in California.

The Liquid Poison Device

After filing a lawsuit against Facebook (Meta Platforms) for rejecting all of my promotions in relation to Anonymous Canada and the Carbonite cryptocurrency, I proceeded to another AirBNB in Surrey. This AirBNB like the last one, had multiple rooms for rent.

I had left my room unattended for many hours over multiple days. Although the room was locked, these locks can be opened with sometimes just a credit card, but certainly any tool designed for such a purpose would have easily been opened by a trained CIA agent. As usual, it takes the CIA team at least a day to catch up to you.

There was a large, prominent ceiling fan in the middle of the room. As I was walking by I felt a large drop of liquid land on my right forearm and heard a small splat. I looked at my forearm almost immediately and could see a clear liquid about the size of a quarter on my forearm. It was not running like water would and appeared to be a light gel. I looked up at the ceiling to see if there was water dripping or some kind of a leak, but could see the ceiling was dry.

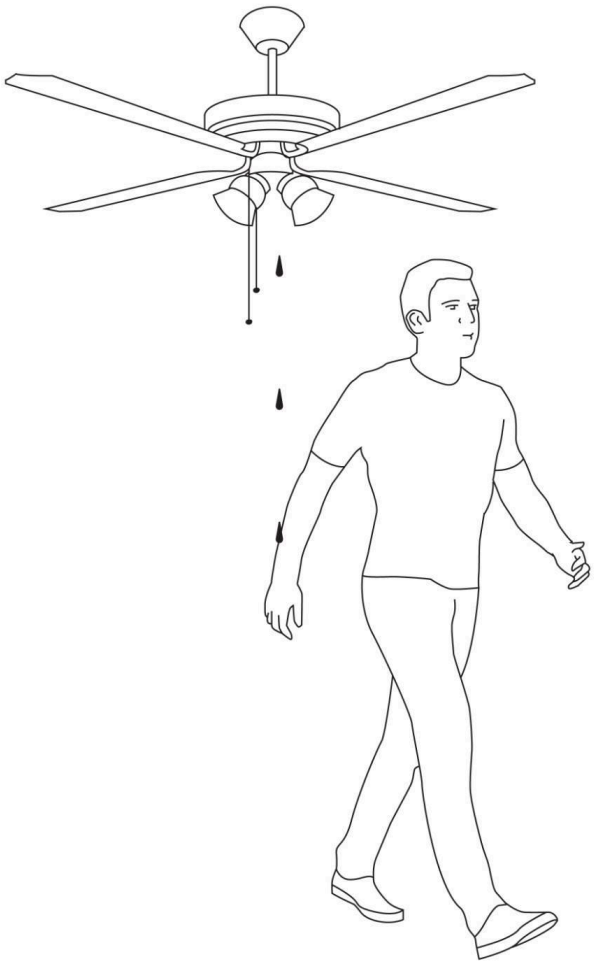
I immediately concluded the clear gel was a topical poison and went straight to the sink in the ensuite bathroom. I washed it off and scrubbed vigorously with soap, then hopped into the shower for many minutes of rinsing. I know from previously having a pesticide applicator license that dermal absorption of toxins is usually quite slow, which is probably why the drop was so large.

This was an opportunity to secure a CIA assassination device which would surely prove what I had been claiming to the police for months. But I was frightened that a further inspection might result in me being blasted in the face with the toxin, so I wanted to get to a public place or hospital as fast as possible.

I was definitely feeling ill from the toxin and sweating profusely. I ordered an Uber and went to the Fresgo Inn near Surrey Central, a restaurant I have eaten at for the past 40 years.

They had just closed due to a flood in the bathroom, but allowed me to sit in the corner because I have known Walter the owner for so many years.

It was then that I emailed the El Salvadoran government and sent them the crypto technology, requesting asylum while explaining that I had been subject to several attacks.



The reason I chose El Salvador is because president Bukele has adopted Bitcoin as their national currency, so perhaps they might be interested in advancing their cryptocurrency

technology to something newer. Although I deeply admire Satoshi Nakamoto and Bitcoin, in my humble opinion Bitcoin is the Windows 95 or Netscape Navigator of cryptocurrency.

When the restaurant opened there immediately were three males who came inside, as if they were waiting at the door. Although the Fresgo Inn is quite large, they insisted on sitting right in the back corner directly next to me in this giant restaurant. I am speculating that the CIA figured I had already ingested some poison, and if they could sneak something into my food I would be a goner. As such, I moved to another table across the restaurant.

I booked a second AirBNB in Ladner without the possibility of any housemates. I phoned the previous AirBNB and paid the son of the owner to pack up my luggage and then an Uber driver to bring the luggage to my new location. I then visited the El Salvadoran embassy in Vancouver and requested asylum.

The consular suggested to me that I fly down to El Salvador immediately and request asylum once I arrived. So, I did exactly what he said. When I arrived in El Salvador I went to a facility for refugees, wherein I was for certain the only caucasian. After explaining my predicament to the workers, I was told that I would be granted asylum but that they couldn't offer any kind of protection.

So, I booked a cheap AirBNB worth $25 a night, and bunkered down while I prepared a Spanish version of the Carbonite flowchart. After a local print shop delivered the presentation, I ordered an Uber to the presidential house. I passed through several blocks of heavily armed guards, as Bukele had recently suspended the constitution and locked up tens of thousands of gang members without trial or due process.

I presented the technology to one of Bukele's aids, then waited for a phone call that never came. During my stay in El Salvador for almost three months I didn't have a single attack on me, and focused on writing affidavits for the Facebook lawsuit.

Disappearing Patent Applications

There were a total of six patent applications filed in relation to the cryptocurrency stablecoin in the Canadian Intellectual Property Office (CIPO). In Canada, regardless of whether an application is compliant, alive, dead, issued, expired, the patent application is published at 18 months unless withdrawn by the inventor in writing.

Application numbers 3113511, 3125667, 3121998, 3119422, 3116092, 3115506, were all filed in the patent office and all received a filing certificate. However, if you look on the CIPO patent database you will find that all six applications are missing.

CIPO representatives are currently unable to tell me why these patent applications aren't published. They've told me that the applications are non-compliant and thus dead, but this doesn't matter. I have at least two non-compliant applications that are published.

The only reason is *Section 20(17)* of the *Patent Act*, which states as follows:

Order to keep non-assigned application secret

(17) The Governor in Council, if satisfied that an invention relating to any instrument or munition of war, described in any specified application for patent not assigned to the Minister of National Defence, is vital to the defence of Canada and that the publication of a patent therefor should be prevented in order to preserve the safety of the State, may order that the invention and application and all the documents relating thereto shall be treated for all purposes of this section as if the invention had been assigned or agreed to be assigned to the Minister of National Defence.

This basically means that the governor general of Canada can appropriate a patent and prevent its publication, or remove the patent application from publication. In my case there were a total of six applications which appear appropriated. Since the Canadian government neglected to tell me, I am not subject to the *Security of Information Act*. Also, since it is my belief the Canadian government is implicated in providing intelligence to the CIA to assassinate me, I offer

no loyalty to the Canadian government whatsoever. That accusation will be addressed later in this book.

BRICS ANNOUNCES MOVE TO CRYPTO

So after returning from El Salvador went 18 months without any more attacks. I thought that my lawsuit against Facebook and the fact that I abandoned the World Intellectual Property Office (WIPO) patent was statistactory to my attackers.

Then on March 4, 2024, BRICS announces their move to a stablecoin crypto technology.

At that time I frequented a park near my house to jog for exercise. On about March 10, 2024, I was smoking a joint while exercising and all of a sudden a RCMP officer is sitting in his Ford Explorer across the parking lot staring at me. I have a medical license and I am allowed to consume marijuana in a park, but the police seemed to want to make a big deal out of it. They positioned three marked cruisers to sit beside my vehicle, and then a vehicle across the lot for at least three hours. I can't operate a vehicle while impaired, but marijuana doesn't really do that in the dosages I consume.

On March 13, 2024, I was jogging in the same park, trying to lose a few pounds because my blood sugar was testing too high. What I had noticed since I started exercising was that my WhatsApp messages to Patty were only getting one check mark and not transmitting through. This went on for about two hours, which is absolutely unheard of between myself and Patty. It is by far the longest time I have ever lost communication.

I was in the park after everyone had left, when I saw a vehicle enter the east parking lot, drive a wide circle observing I was alone, and then exit without parking. I immediately identified this as surveillance tradecraft and knew instinctively that something was about to happen.

I walked as fast as I could to the west exit just as a pickup truck with a canopy was pulling up. I passed the now exiting driver as fast and as wide as possible. I immediately had respiratory difficulty and I believe he sprayed something at me from behind, but at a distance. I also had some hyper sensitivity to smell all of a sudden.

I made it to the local Esso station a block away and alerted one of the staff to call an ambulance if I collapsed. My extremities had turned blue and the paramedics agreed I was losing circulation. My heart was palpitating hard and somewhat painfully, which is a tell tale sign of poisoning. That's not normal for me.

Of course in an emergency ward, after an EKG looks fine but that's because the palpitations are minutes apart. Blood pressure is elevated when my blood pressure is considerably lower. Whatever these guys use, fact is that it was selected specifically not to appear on a normal toxicology test. I haven't died from this yet because they haven't been able to pull off a direct shot in the face with an aerosol. If they do, I will die young from a heart attack. I am 48. My father is 81. I have no reason to expect any less years by natural causes. I've lost 30 pounds in the last two months. I'm physically active and eating a lower calorie diet.

Scared to near death about the fact the assassins had returned, I contacted the embassies of most of the BRICS nations, trying to respect sanctions between Russia and Iran, but also acting in accordance with what is needed to save my life and deter these assassins from acting. Thus, most BRICS nations have been made aware of the cryptocurrency technology, as my hope is it discourages any further attempts on me.

On April 12 I flew off to Shanghai, China and requested asylum, wherein the Chinese authorities copied all my technology, interrogated me thoroughly, and then refused to allow me to enter the country without reason. So, I ended up deported to Bangkok, Thailand, in a moderately priced hotel.

The second night I was there I had awoken around 4am, as I was jet jagged and worried. Just as I was lying on my side I heard the lock pop, which caused me to flip around and make a lot of noise. I could then hear people scurrying down the hallway as fast as they could.

Upon inspection of the lock, sure enough it had been popped open. They had either used a key or picked the lock. I didn't have my usual glass contraption setup on the door and as such, they tried to sneak in while I was sleeping. It is possible these were thieves, but what kind of a

thief tries to come in at 4am with the occupant? Usually thieves wait for you to leave, so it's my belief had they snuck in while I was asleep I would not be here to write this book.

In Conclusion

The conclusion of this book is simple. Placing aside all the amusing gangster stories and assassins of the U.S. government, catastrophic climate change is a serious imminent threat to the national security of every country on this small planet we call Earth.

Well, I've presented in this book how to replace petroleum with a biofuel that can be produced all over the world in massive quantities. Large machinery, heavy trucks, and heavy aircraft at a bare minimum will need a steady supply of liquid fuel in the future, thus the seaweed-to-fuel technology seems inevitable. Batteries are and will continue to be very expensive for many years. However, the most efficient way to refine the seaweed into fuel is by using a conventional or next generation fission nuclear reactor. I know many people want renewable only, but there is a reason why Germany with renewable electricity has the highest electricity cost in the entire European Union (EU), while France using conventional nuclear technology has the lowest cost electricity and the lowest carbon footprint in the EU and most of the world. The mistake France is using is the use of water cooled reactors which can melt down if a water supply is lost, which we saw at Fukushima. Therefore, molten salt based reactors that are inherently stable should be used instead. Nuclear waste is far more minimized using a "breeder" reactor over a conventional reactor which only uses about 2% of the available nuclear energy.

The cryptocurrency system is designed to reverse climate change slowly and should be a cooperation of all governments, but I see now that this will become a division of coins. Perhaps the allies will release a NATO coin, perhaps other countries will release their own carbon coins. It really doesn't matter, just as long as the cryptocurrency is launched and the world proceeds to grow more trees.

Between the two technologies and other existing technologies, climate change should be licked pretty good. The question really becomes when and will governments implement anything I have invented, and if not then what excuse did we really have for not saving ourselves from our

own destruction, when in fact the technology to preserve humanity was staring government's right in the face?

Carbon Negative Cryptocurrency Stable Coin

Technical Field

[0001] This invention relates generally to a decentralized electronic financial system using cryptocurrency transactions on a blockchain as the monetary medium of exchange, wherein each coin and/or token is financially backed by timber rights and carbon credits earned from the physical growth of the trees planted. This invention further relates to a trading system which maintains each coin's intrinsic value relatively equal, by swapping tree/carbon credit ownership on the blockchain and/or coin itself. The invention further relates to an enforcement system to ensure the decentralized mining and validating computer systems are operated by "clean", renewable, and/or carbon mitigating energy systems, especially energy that is being currently wasted and can readily be converted into electricity. The invention further relates to a trade system that allows coin holders to group their trees to specific regions. This invention further relates to a system which allows coins to be burned in exchange for timber rights and monetary transfer of carbon credits to the former coin holder, with an inherent enforcement system for registering the wood as carbon sequestering. The invention further relates to a "stable coin" which publicly displays its calculated future value based on predicted future value of timber, standard rates of growth, losses due to disaster, and carbon credits. This invention further relates to a hybrid proof of work (POW), proof of space (PoS)/ proof of time (PoT), and proof of stake (POS) cryptocurrency system, wherein coin miners pay the costs associated with tree planting to register coins, and land stakers provide suitable acreage to plant and grow trees in exchange for operating a network node and receiving network transaction fees. This invention further relates to a system of preventing future 51% attacks on a decentralised consensus system with quantum computers, or attacks by hackers using massive computer power. The invention further relates to a consensus system for lowering power consumption of mining equipment during periods of low network volume.

[0002] The first cryptocurrency system Bitcoin (BTC) was invented in 2008 by a person or group using the pseudonym Satoshi Nakamoto. Since then, many other cryptocurrency systems have been created and deployed, including Ethereum, Litecoin, Ripple, Dogecoin, Bitcoin Cash, and many others. Satoshi Nakamoto has never been identified and may be deceased.

[0003] The largest critics of cryptocurrency state that coins and tokens possess no actual value, the price of cryptocurrencies are wildly unstable, and that ridiculous amounts of electrical energy

and computer resources are required to mine coins and tokens, as well operate the financial system through massive consensus validation of transactions.

[0004] Proof-of-Work (POW) cryptocurrency mining is the practice of using computer processors in a competition to solve complex computational math problems, or in general terms cryptocurrency mining is the process of solving relatively weak puzzles. Relative to codes such as the Advanced Encryption Standard (AES) used in many digital communication systems at 256-bit key length, these currency encryption puzzles are weak in comparison by a large factor. The first entity (also known as a miner or a pool of miners) to solve a puzzle may be awarded coins or tokens. The process also involves validating data blocks and adding transaction records within the data blocks to a public record/ledger known as a blockchain, wherein the entity that solves the puzzle may be tasked with writing the next block on the blockchain.

[0005] Proof-of-Space (PoS) and Proof-of-Time (poT) cryptocurrency mining is an alternative to POW which uses storage space instead of processor power to mine cryptocurrency coins. A cryptocurrency company known as Chia pioneered this system, wherein the PoS system uses far less electrical energy than the POW mining system. Notwithstanding, many brands of hard drives and static random access memory (RAM) are failing after only a few months of PoS work. As such, the energy cost of more frequently replacing failed equipment has not been factored into the energy consumed in PoS when concluding much lower energy requirements or footprint.

[0006] In Proof-of-Stake (POS) cryptocurrency systems, the creator of the next block and recipient of fees is chosen via various combinations such as random selection, wealth, contribution, and age. For some examples, a person holding coins, and/or submitting coins into a trust, or staking several coins that are more than thirty days old may be selected to receive more coins for performing the computer work of validation or block writing. POS cryptocurrency systems are far less energy intensive than POW and are designed to eliminate mining, because there is no longer a competition to be the first to solve an essentially useless puzzle. Notwithstanding, POS may prove a disadvantage in terms of perceived wealth, as the difficulty of mining POW creates a rarity of commodity similar to gold, or any other precious metals. Billionaire Mark Cuban refers to the phenomenon as “algorithmic scarcity”.

[0007] Further to POW, Bitcoin has demonstrated for a number of years now that the POW consensus financial system is “unhackable”. Although coins can be stolen by various means of either guessing weak passwords or stealing passwords, the consensus system based on a massive,

decentralized, computer network is with few exceptions inherently stable, uncorruptible, and possibly able to withstand huge global disasters (such as nuclear war), because of the de-centralized nature. Thus, proof of work (POW) is currently a far more established candidate as the backbone of the modern cryptocurrency global financial system.

[0008] Cryptocurrency coins are now commonly used as a means of monetary exchange all over the world, while some governments such as China, Russia, and India appear in the process of outlawing these decentralized currencies in favour of their own. China's recent crackdown on cryptocurrency mining resulted in a mass exodus of mining equipment to other countries, as well as a flood on the market.

[0009] Another advantage of POW cryptographic currency over paper money is the difficulty at which a cryptographic coin is to mine, essentially the most difficult task a computer can be assigned. A government can mandate printing more money, for example in year 2021 United States president Joe Biden approved a stimulus bill which created about $1.5 trillion dollars of new United States currency. This amount of paper currency is greater than the market cap of Bitcoin at the time of filing this invention, wherein the current total value of Bitcoin is around $1.1 trillion United States dollars (USD). But printing excessive amounts of currency can result in hyper-inflation of prices and the destabilization of a national currency. Venezuela for example, has seen massive inflation since 2016 of 53,798,500% to the time of filing the present invention. Further, inflation in the United States has now hit a 40 year high and inflation in Canada is averaging around 7%.

[0010] Many forms of POW cryptocurrency cannot simply be "printed", and thus have an inherent perceived value of scarcity similar to gold. The cryptocurrency Bitcoin (BTC) has a limit of 21 million coins, wherein subsequently mined coins are more difficult to produce than the last. Ethereum (ETH) has an impending ETH 2.0 upgrade to "burn" or otherwise destroy coins deducted as transaction fees while moving to a POS system, as to maintain scarcity of that particular cryptocurrency coin. Further, cryptographic currency cannot be counterfeited because each coin can be instantly verified mathematically using a public blockchain to verify registration of the coin, as well heavy encryption prevents corruption of the transaction system. As such, blockchain technology has thus far mostly proven to be impervious to computer hackers with an attack known as a 51% attack, provided there are a sufficient number of independent nodes on a consensus network.

[0011] One problem with cryptocurrency is the amount of electrical energy require to create POW cryptocurrency coins, which is now amounting to the energy consumption of entire countries such as Ireland and Argentina. As well, huge amounts of waste heat are being discarded from large cryptocurrency mining facilities. For example, a large publicly traded company in Quebec, Canada, is estimated to consume the equivalent electricity of 25,000 homes. As such, cryptographic currency is widely regarded as having a high carbon footprint and inherently a "dirty", unsustainable technology.

[0012] Part of the problem is that POW mining is a competition wherein every processor is operating at a peak speed, often and usually overclocked. This overclocking may seriously shorten the life span of the computer equipment and consume excess energy. POW mining operates at peak speed and power consumption for 24 hours a day, even when the rate of network transactions may be slow.

[0013] Indeed, at the time of writing this document, Bitcoin (BTC) has crashed from an all-time high of around $68,000 USD to around $29,000 USD in a matter of weeks. Similarly, in the same time frame Ethereum (ETH) has crashed from an all-time high of $4891 USD to around $1700 USD. As such, cryptocurrency has proven to be an unstable monetary system. Many financial experts have stated these wild fluctuations are due to the highly speculative nature of assets which are not backed by any tangible object or value. As in, it is very difficult if not impossible to determine a cryptocurrencies true value when not backed by anything tangible.

[0014] Some governments historically relied on backing their paper currency to create value and stability of their national currency, however this practice has mostly ended. For example, the United States dollar was formerly backed entirely by gold until 1963. It may be argued that Joe Biden's $1.5 Trillion dollar stimulus in 2021, which resulted in printing more United States money in circulation, did cause at least a portion of the dramatic inflation in prices that immediately followed the cash injection.

[0015] As such, there is a need for a cryptocurrency system which does not substantially contribute to pollution, maintains resistance to hackers and corruption of the financial network, and has inherent price stability through backing with a valuable commodity combined with a tax incentive revenue held in trust.

Summary of Invention

[0016] The cryptocurrency financial system invention may be maintained and managed by a moderator. The moderator for the purpose of this document may also be described as an administrator. There may be many administrators, and their locations may be de-centralized and operate in any country that participates in the financial network invention.

[0017] A cryptocurrency wallet may contain pairs of public and private cryptographic keys. The encryption may be symmetrical or asymmetrical, and may be based on any form of encryption. The keys can be used to track ownership, receive, or spend cryptocurrencies. A public key allows others to make payments to the address derived from it, whereas a private key enables the spending of cryptocurrency from that address. A wallet will typically display the amount of cryptocurrency associated with the wallet. The amount of cryptocurrency in the wallet may be encrypted.

[0018] The large use of electrical energy argument may be overcome by using sources of electricity that otherwise would be wasted. For example, in the numerous mountains of Costa Rica, there currently exists several third-party hydroelectric sites that have essentially been abandoned by the national electric company El Instituto Costarricense de Electricidad (ICE), because the electricity is not needed in the local community and not easily transmitted without unsightly high tension wires in otherwise pristine mountains. Also, many data centres can be operated by simple steam turbines on the side of Costa Rica's numerous volcanoes. El Salvador is currently offering volcano power for cryptocurrency mining as they adopt Bitcoin as their national currency. Major operations can be positioned in remote parts of the world utilizing all types of low-cost geothermal sites that are otherwise wasted because the electricity cannot be easily transmitted, and using satellite communications for internet connectivity may be ideal to connect to the consensus network. At the time of filing, El Salvador has mined its first Bitcoin (BTC) by using geothermal energy from a volcano.

[0019] For the purpose of this document, a single unit of the cryptocurrency which is the present invention may be referred to as a carbon coin. Further, any person or entity that uses computer equipment to create cryptocurrency and validate transactions in the financial system may be referred to as a carbon coin miner. Even further, any person or entity who provides land for growing trees and/or validates transactions may be referred to as a land staker. Further again, any potential carbon coin miner may be required to prove or otherwise provide sufficient evidence to

a consensus of de-centralized administrators, that the computer-based mining equipment used by the specific carbon coin miner will be powered by renewable energy or alternatively, non-polluting energy such as nuclear. For the purpose of this document, these forms of electricity may be referred to as a source of clean electricity. Electrical power generators that actually produce a negative carbon footprint may also be allowed to participate, even involving the use of fossil fuels.

[0020] The carbon coin miner and other prospective miners may not have the ability to mine and/or to register any carbon coins on the blockchain without a password provided by an administrator. A password may be a private encryption key. The password may also be a passphrase, or a series of words or numbers in a particular order. In another embodiment, the words or numbers may not be in a particular order. The password may allow the carbon coin miner to access encrypted digital information which when used in combination with a valid carbon coin, may allow registration on the blockchain.

[0021] The administrator may issue a password, private or public encryption key, or code to the prospective miner upon acceptance as a participant in the consensus network. The hash rate may be restricted or otherwise throttled to the approximate amount of energy consumption that has been proven to be from a source of clean electricity by the carbon coin miner, using conventional mining equipment. The throttling or restricting of the hash rate may be by remote control of the computer processor by the system. Alternatively, the carbon coin miner may be restricted or otherwise limited to registering a certain amount of carbon coins per month, or any given time frame. The prospective carbon coin miner may need to re-submit evidence of an increase of access to clean energy for the consensus of administrators to raise the hash rate throttle or increase the number of coins that may be registered in a given time frame. This registration and hash rate limiting system may also prevent a 51% attack wherein the attackers are using quantum computers. A 51% attack is generally defined as a means of attacking a consensus based financial system, by controlling the majority of computer power in a decentralized system, thereby allowing verification of fraudulent or otherwise nefarious transactions.

[0022] Since overclocking is often the source of wasted energy and shortened lifespan in cryptocurrency mining, contributing further to the the playing field may be levelled by prohibiting manual miner overclocking, and placing the control of the computer processor with the system. A mining application which communicates with the system and the de-centralized administrators may be used to control a cryptocurrency miner's computer equipment. The mining software

application may be operated by the cryptocurrency miner to mine carbon coins. The mining application may communicate directly with graphics processor units (GPU) on a mining rig, the central processing unit (CPU), or the storage of either hard drive or solid state drive (SSD). A mining rig is generally defined as a computer motherboard with a central processing unit (CPU), random access memory (RAM), and several GPU's connected to multiple PCI slots on the motherboard. A mining rig may also be an application specific integrated circuit miner (ASIC), or a group of memory disks such as hard drive or SSD connected to a special motherboard. A mining application is the software. The mining application may communicate hash rates or speeds of GPU's to the mining pool. The mining pool may send direct commands to the mining rig to either lower or increase the processor clock speed, voltage, video random access memory (VRAM), random access memory (RAM), CPU clock speed, or wattage (W). The mining application and/or mining pool may measure the response from a command of computer speed or hash rate, to determine whether the GPU is operating normally, and to prevent fraud of the system. Fraud may be in the form of providing false speed signals. This system may allow mining equipment to last significantly longer and consume much less electricity, without a competitive disadvantage to any of the cryptocurrency miners. The system described in this document may only have one mining pool and no independent mining pools, as to maintain control over the speed and energy consumption of the entire system. The relative miner earnings between computer processor miners POW or POS, and computer storage miners PoS may be based on the requirements of the system. For example, if too much computer processor power is connected to the network and an insufficient amount of storage memory is connected to the network, the earnings paid to storage memory miners may increase while the earnings paid to computer processor miners may decrease. The shift of earnings may be equal, for example computer processor miners may earn 20% less and storage memory miners may earn 20% more. This practice may encourage more storage memory miners to connect to the consensus network.

[0023] Further, the system may allow a competition of existing mining technologies to allow invested miners the ability to switch from mining a competitor's coin, such as Bitcoin or Ethereum. Carbon coin miners using SHA-256 based mining equipment may be permitted to compete against miners using ETH based mining equipment such as GPU's, thereby allowing carbon coin miners to utilize existing equipment. Further, carbon coin miners utilizing storage space may compete against carbon coin miners utilizing computer processor speed. As well, carbon coin miners that

can prove to administrators that they are utilizing the waste heat of their mining equipment may be awarded more coins, or otherwise provided with a higher rate of earning compared to miners that are wasting their heat.

[0024] When a carbon coin is mined by use of cryptocurrency mining equipment, the coin may not be immediately registerable on the blockchain. A fee of either fiat currency or cryptocurrency may be paid to an administrator or other entity by the carbon coin miner. The fee may be proportional or otherwise mathematically related to either the intrinsic value or market value of the carbon coin. This payment may be immediate and may be automatic. Alternatively, the fee may be paid to any legal entity including a company that plants trees. A unregistered coin may be restricted from circulation and may be prevented by the consensus of administrators or other means, from being transferred on the blockchain, from wallet to wallet, or from any other means. Once the fee is paid, the administrators may allow the carbon coin to be registered on the blockchain or provide information which allows the carbon coin to be registered on the blockchain.

[0025] The blockchain of this system may be particularly large in data size. The PoS and PoT system may be operated and gauged by duplicating the current blockchain. The blockchain may be duplicated all over the world into various storage systems such as SSD's and HDD's. The PoS and PoT system may be based on a competition between miners of how many times the blockchain can be reprinted on available space over a measured amount of time. However, storage write speeds may be throttled by the system to all PoS miners, to increase the longevity of the equipment. The cryptocurrency miners may simply compete by reprinting as much blockchain as possible. In the event of a catastrophic nuclear attack, countries would most likely target civilian populations and not trees. It is ubiquitously known that intercontinental ballistic missiles (ICBM's) are specifically targeted by countries and would generally never be wasted to target trees. Also, trees as plants may be much better than animals at tolerating radiation, as the planet recovers. Any survivors of a catastrophic global nuclear war would have means of recovering the financial system, limited to transferring funds associated with specific wallets and private keys. The system may equally spread out the blockchain all over the world, or in any particular order, to ensure the blockchain is the most effective fingerprint (or "Digital DNA"), so that survivors of environmental or nuclear holocaust could recover their rightful interests in the financial system as quickly as possible, the data needed to establish a new financial system would already be available. Thus, this financial system may never become lost to future generations.

[0026] Newer carbon coins may be associated with trees that are of a younger age and smaller size than an older carbon coin. For example, a ten-year old carbon coin may be associated with ten year old trees worth thousands of dollars, while a new carbon coin may only be associated with seedlings. As such, the system may trade trees in such as manner as to create a near equal distribution of trees of varying age among all carbon coin holders, so that all carbon coin holders have relatively the same value of trees amongst all carbon coins.

[0027] Additionally, to be an attractive investment as a financial system, the system may automatically limit the amount of coins that may be mined in a given time frame. Further, the amount of coins may be limited in a manner which maintains the intrinsic value of the carbon coin above the current rate of inflation, or any other set value. For example, if either the market or intrinsic value of the carbon coin starts to drop, the issuance of new coins may grind almost to a halt resulting in the difficulty level of producing a coin to go up significantly. Or, if the market or intrinsic value of the coin was to rapidly increase, the difficulty level may decrease rapidly causing a flood of relatively easy to mine coins and thus many trees may be planted in a short period of time. Alternatively, the system may limit the amount of coins to maintain a set rate of growth, such as 5% per annum. The system may estimate the intrinsic timber value of trees associated with this invention based on age, tree type, location, temperature readings, precipitation readings, forest inspection reports, fires and other natural disaster, disease, and current local timber value of the specific wood type. The difficulty level of mining coins may be proportional to the amount of hash (or computer) power and storage space competing on the carbon coin network, which may allow control over the rate of growth of the intrinsic carbon coin value. The relative difficulty level between POW and PoS miners may be proportional to the needs of the system. For example, the system may possess a superfluous amount of processor power, but may lack in storage space for distributing the blockchain. As such, relative earning levels for PoS miners may increase at the expense of POW miners, to attract more PoS miners to the system. Chia for example currently has so many miners that the difficulty level has increased rapidly, wherein miners are having difficulty turning profit.

[0028] For one example and for greater clarity, a forest or group of forests may grow in useable biomass by a calculated rate of 20-25% per year, but the system may allow an intrinsic value growth rate of any carbon coin at only 5% per year, while issuing enough new coins to dilute the

remaining 20% of intrinsic value into new coins being issued. Thereby, the system may be an attractive currency and stable investment system.

[0029] For example, when the system is first launched to market, all carbon coin holders will have seedlings associated with each carbon coin. However, as time goes on older coins will increase in intrinsic value over newer coins, which may lead to destabilization of the cryptocurrency system. For example, a seller of merchandise may insist the merchandise be paid with older coins, thereby devaluing newer coins. However, to solve this problem the software system may automatically swap trees and/or regions of trees with all carbon coin owners, thereby the software system may create a distribution of trees among all registered coins, wherein each coin possesses relatively the same intrinsic value. Over time, this may allow for steady and consistent inflation of the value of the coins, as the relative value of trees associated with carbon coins may slowly increase over many years.

[0030] Factors/variables that the system may take into consideration include tree type, tree age, geographical location, soil conditions, weather, local market values of timber, and custom input information. Custom input information may include forest fire data, flood data, insect infestation, or any natural disaster data in relation to trees managed by the system.

[0031] When trees are known to be devalued and that information is inputted into the system (for example due to pine beetle infestation or severe drought), or destroyed from forest fire or high winds, the system may swap trees between coin owners to mathematically even the intrinsic value of the carbon coins to the best of the ability of the system using rounding of numbers. Carbon credit earnings may then be assigned to each coin to make coin values nearly perfectly even.

[0032] As the intrinsic value of each carbon coin increases, the fee paid by a carbon coin miner to register a carbon coin may increase to plant more trees. As the market value increases, the fee paid by a carbon coin miner to register a carbon coin may increase to plant more trees. Alternatively, a decrease in either market or intrinsic value may decrease the fee paid by cryptocurrency miners to register a coin. As well, the amount of area of usable land required to be staked by a land staker may increase with the intrinsic or market value of the carbon coin. Land stakers may earn coins from validating transactions, writing blocks on the blockchain, contributing to providing consensus, and any other function. The amount a land staker can earn may be dictated by the amount of land, length of time staked, and the proportion of total land stakers. Land stakers may have to commit contractually to set time periods, such as a 20 year stake of land contractually,

with a loss of all timber rights to a coin owner or in the case of nefarious activity, loss of timber rights by the land staker. The quality of staked land may be determined by one or more administrators, wherein quality may include suitability for tree growth, location, soil quality, soil composition, sources and types of nutrients, drainage, geography, soil, sun exposure, or any other variable which affects tree growth or preservation. Land stakers may be given priority to mine coins/tokens associated with trees on their land, may be able to choose the trees planted on their land from a select list, and may be issued coins associated with trees on their land. A Land staker who does not commence transactions on the system may maintain ownership or priority of ownership of the trees on the land stakers land.

[0033] Nefarious activities by any node operator or miner may have immediate consequences. For example, a land staker who is operating a node may attempt to double spend currency. Such an action may result in the system automatically slashing contract rights, which may be smart contracts. Slashing may be defined as a mechanism built into proof of stake (POS) blockchain to discourage validator misbehaviour. Any coins held by the validator may be burned from the blockchain, and any trees grown on the land staker's land may be moved to a random tree pool or a stability pool. Hence, the nefarious land staker loses the timber rights to his/her trees.

[0034] The amount of a fee paid by a cryptocurrency miner to register a coin may be proportional, or otherwise dictated by the current market price of the carbon coin. Alternatively, the fee or portion may be distributed by the administrator to a tree planting contractor. Alternatively, the fee may be provided to a renewable energy installer such as solar panels or wind turbines. As another alternative, the cultivation of any other plant may be funded with the fee. As an example, one hundred dollars may be paid as a fee to plant 10 trees. After ten years, ten red oak trees may have a hypothetical commercial value of around $15,000 USD. The same fee may be used to plant 20 Elm trees.

[0035] Since timber markets may fluctuate, an initial assignment of a smaller percentage of actual planted trees may be assigned to a stability pool and not assigned to any carbon coins. A stability pool may be defined as a group of ownerless trees that are used to compensate for timber market fluctuations. For example, a carbon coin miner may pay the costs associated with planting 10 trees and 10 trees may be planted, but the related carbon coin may only be registered with the ownership of eight (8) trees. The stability pool may serve as a buffer for the market value of the timber, wherein a drop in the timber market value may result in some buffer trees being assigned to carbon

coins that have dropped in value, which may correct market fluctuations. As an addition or variation, a rise in timber value may result in trees being unassigned from carbon coins and reassigned to the stability pool.

[0036] Since it may be impractical to assign a carbon coin to a single tree, groups of trees may be known as a region. In each region, the trees may have planted in a specific time frame.

[0037] Primarily due to the Paris Agreement on climate change, planting trees in most regions may earn carbon credits, and those carbon credits may be sold to carbon emitters or held for indefinite periods of time. The revenue from carbon credits may be held in trust in any form including fiat currency, gold, silver, lumber, timber, or any other product of value. The value of the carbon credits may be added to or may financially back the value of a carbon coin. These funds may be used to even the exact intrinsic value of a carbon coin. These funds or commodities may be held in the country in which the carbon credits were issued, and these funds or commodities may be held in trust for carbon coiner holders. As such, the system may hold multiple fiat currencies in trust. Every carbon coin may be financially backed by a mix of fiat currencies derived from carbon credits, so that if one currency drops in relation to another greater stability of the carbon coin may be achieved.

[0038] The geolocation, tree species, date of planting, and the area/region in which the trees may be planted may be imbedded on either the blockchain, which may be imbedded upon registration, or on the carbon coin itself. Any other information regarding the trees planted may also be imbedded on the blockchain or stored elsewhere. To minimize the possibility of terrorist attacks on tree inventory, the actual location of the trees may be encrypted on the blockchain public ledger. Further or alternatively, forests planted by the system may be designed in such a manner as to reduce the transmission of forest fires. For example, the trees may be properly spaced, or the litter and underbrush on the ground may be removed. Other means of fertilizing the plants may be implemented, such as time release fertilizers or any type of fertilizer. Alternatively or additionally, the litter or underbrush may be tilled into the soil. The owner of the carbon coin may have the legal right to harvest the trees associated/registered with the carbon coin at any time, as well as carbon credit revenue. The carbon credit revenue may be paid in multiple currencies. There may be an option available to any carbon coin holder to deactivate or destroy carbon coins. For the purpose of this document, destroying or deactivating a coin may be referred to as “burning”.

[0039] A carbon coin owner who decides to harvest the timber associated with the coin and receive carbon credit revenue may be contractually required to "burn" the associated carbon coin. A carbon coin owner who wishes to harvest timber associated with the carbon coin may be required to identify him/herself to the administrator. The administrator may then grant written permission, such written permission may be in the form of a smart contract, wherein such written permission could be known also as granting timber rights, to a certain number of trees in the specific region of trees. However, the coin holder may be limited in the timber rights to harvesting only the number of trees associated with the coins owned and possibly "burned" by the carbon coin holder.

[0040] The system may entail stamping, engraving, or otherwise marking cut lumber with specific quick response (QR) codes and labeling the wood as carbon sequestration wood (CSW). Alternatively, a bar code or any form of code may be used. Conventional carbon sequestration may include pumping and compressing gaseous carbons such as oxides and methane into cavities in the earth. CSW as a waste product saw dust may be much more effective blown or otherwise transported into deep earth caverns, than compressing carbon dioxide or methane gas. In fact, compressing any gas is inherently a very wasteful process, whereas compressors dissipate large amounts of energy as heat. Sawdust on the other hand can be blown with a fan through air ducts, which may be much less energy intensive than compressing gas for carbon sequestration. The majority of the subterranean carbon sequestration may be in the form of sawdust. The sawdust may need to be dried before being blown underground. The sawdust may be treated with chemicals, preservatives, or converted into active charcoal to further absorb carbon dioxide. Saw dust may be heated while being cut to release/separate as much moisture as possible. The sawdust may also be stored in trenches, pits, above ground, or anywhere else.

[0041] Two or more carbon coin holders may trade their relative geolocations of trees through a software application, or any other means. The geolocation data may be swapped on the blockchain, or alternatively the geolocation data may be swapped on the carbon coin itself. The software application may allow coin holders to send anonymous messages to each other to request a change in geolocation. Alternatively, or additionally, the software may allow any trees selected by the coin holder for transfer to a specific region that has also been selected by the coin holder, to be automatically traded to other coin holders with similar requests. As one example for clarity, a coin holder that has received and accumulated coins that are geolocated with trees sparsely populated all over the world, may trade their coins to other carbon coin holders for the purpose of

consolidating trees to a specific region. Consolidating trees to a specific region may lower costs for the purpose of harvesting timber. For the purpose of determining the best means to transfer ownership of trees on the blockchain, creating new blocks, or any other purpose within the system, the system may task computational problems to existing cryptocurrency miners.

[0042] Financial systems inherently have periods of high rate of transactions, median rates of transactions, and low rates of transactions. During low volume periods, the processors and storage space miners may operate more slowly. Specifically, the clock speed, maximum wattage, and/or voltage may be remotely controlled by the mining pool, so during low demand periods cryptocurrency miners are consuming less electrical energy and producing less wear and tear on the computer equipment. Additionally, if all computational power on the system is throttled simultaneously by remote command or other means, the system may regulate a fair competition for cryptocurrency miners. Alternatively, during periods of high transaction demand, the system may command computational power throughout the system to increase in clock speed, wattage, or voltage to equally meet demand. Additionally, storage miners may have the speed and/or frequency of reading/writing of their storage space throttled to reduce energy and wear.

[0043] Specific GPU's or ASIC miners may have to be registered on the system, and commands may be sent to the GPU or ASIC miner based on the specific model. For example, an Nvidia RTX 3080 processor may require 250 Watts to operate at a peak speed, while an Nvidia RTX 3090 may require 320 Watts to operate at a peak speed.

[0044] It is an economic fact that certain species of trees are worth more than others. For example, in ten years a Red Oak may be worth twice as much as an Elm tree. As such, the number of trees a person is entitled to harvest may rise or lower depending on the local market of the tree species. However, if all trees have been assigned in relatively equal monetary proportions to of all available trees amongst all coin holders, the system may maintain equal intrinsic carbon coin value. As such, a single coin holder may not have the right to harvest ten trees originally planted, but rather a fair proportion in relation to a set value. The set value may be comprised of local timber value. In the present example of the invention, the coin holder will have timber rights to a proportion of trees which amount to $15,000 USD or may be proportionally less to all coin holders if the tree market crashes. Because the timber value of the carbon coin may stay relatively the same (to the nearest mathematical rounding of trees), each coin may be more consistently worth $15,000 USD than any other cryptocurrency.

[0045] Over a period of time, a substantial amount of trees may be grown throughout the world. Over time, forest fires, drought, and disease may destroy or devalue timber. As data is inputted into the system regarding tree losses or devaluing, trees may be shuffled or otherwise traded among all registered coins to maintain a relatively even balance of value in the cryptocurrency system.

[0046] The system may set a limit on the number of carbon coins that may be registered on a blockchain. The limit of the coins may be near the amount of trees scientists predict can be planted on Earth safely, beneficially, and/or practically. For example using one scientific conclusion, once the goal of planting one trillion trees has been reached the trees may be only capable of absorbing and assisting in sequestering around 40 gigatons of carbon in total.

[0047] The system may use all available data to calculate the approximate net worth of all trees, and may make such information public, possibly in real time and may be transmitted electronically.

[0048] A consensus of mining nodes may be required to apply changes to the carbon coin network, such as its operations and in the manner the network constructs blockchains. A hard fork may be needed to make changes wherein there is no consensus. A hard fork may start two or more different cryptocurrencies, which may result in ownership of trees in divided into multiple currencies. Alternatively, a hard fork may keep all associated trees and carbon credits with one currency and create another currency which isn't backed by anything.

[0049] At the time of this writing, mining based proof-of-work (POW) cryptocurrency Bitcoin and its descendants such as Dogecoin (DOGE), have demonstrated if not proven, that perhaps an unprecedented level of unhackability of any type of computer system was achieved on a mass scale. Using the 51% consensus concept on computer processor operations which require great amounts of electrical energy, are also quite stable and proven.

[0050] 51% consensus, or any other form of consensus, may also be implemented in an escrow system which facilitates buyer and seller protection utilizing carbon coins. Whereas, a consensus combination of either miners, validators, or land stakers may be utilized in deciding the fairness of a transaction and whether carbon coins held in escrow on the blockchain should be returned to a buyer, or if goods should be returned to a seller. The use of escrow services by a buyer and seller may be optional to the buyer and seller, and not a requirement of a cryptocurrency payment system.

[0051] Coins and/or tokens may be fungible, and dividable into partial coins for payments of smaller amounts. Trees may be moved on the blockchain to be linked with partial coins as well as full coins. In circumstances where a partial coin's value is too low to be associated with a tree, the

partial coin may be linked only with carbon credits. Alternatively, partial coins may not be linked with any trees or carbon credits. Trees and carbon credits may be linked to partial coins when they are combined in a wallet to form a single coin.

[0052] Land stakers may provide land for growing trees in exchange for operating a node which verifies transactions on a consensus based system, or any other system. Nodes may be independent computer systems, in a network, in the cloud, at a data centre, or anywhere feasible. A node in the world of virtual coins, is a computer connected to a cryptocurrency network that can execute certain functions such as creating, receiving or sending information.

[0053] Land stakers may earn transaction fees, or otherwise be awarded carbon coins or other tangible goods to perform validations and serving as an independent node. Land stakers for the purpose of this invention may be participating in a proof of stake (POS) system. Land stakers may be allowed to choose certain types of trees to be planted on their land. These trees may be fruit or nut bearing. For example, cherry, chestnut, and walnut wood are all valuable woods and grow sizeable trees. Further, maple trees produce a valuable and popular syrup. Land stakers may have rights to harvest the fruits, nuts, and saps from the trees on their staked land, so long as the trees themselves are not harvested. Land stakers may have priority to own the carbon coins associated with the trees on their land, for example if they are also mining coins. A miner who is also a land staker may choose the type of trees to be planted on their land upon or during registration of a coin. The selection of trees may be limited to certain types of trees. The trees available may be of high wood value, longevity of tree life, size of tree, and suitability to grow in certain climates. Land stakes may not be permitted to prune the apical shoots of trees, and the trees may be forced to grow to considerable heights over conventional farms. As such, small aerial drones may be used for harvesting.

[0054] With respect to data, compression is the process of encoding information using fewer bits than the original representation. The blockchain in the present invention may be particularly large, from transferring trees tethered from one coin to another. The computer processors participating in the system may participate in compressing the transaction records before publishing a new block, as to reduce the size of the blockchain.

[0055] An administrator, or a consensus of administrators may assess staked land based on analytical reports of soil quality, sun exposure, location, area, drainage, or any other relevant factor, types of trees wanted by the land staker, and grade land accordingly. For example, it is

commonly known that trees grow faster in warmer climates, as such an acre of land from an equatorial country may be worth more in terms of coins awarded or transaction fees compared to a northern country with a short growing season. Further, certain trees are worth more than others in terms of timber value, but also expected carbon sequestration and hence carbon credit value.

[0056] The invention may also comprise a primary coin and a secondary coin/token. Alternatively, there may be multiple coins used in the system. Primary coins may be undividable, while secondary coins or tokens may be dividable into portions. Wallets may visually express two or more coins, wherein the whole values are of the primary coin, and values less than 1.0 are secondary coins/tokens. For the purpose of this invention, the difference between a coin and a token is that a coin has its own blockchain, while a token utilizes another blockchain. The primary currency may as well be a token. Secondary tokens may represent values under one primary coin. For example, if a user's wallet displayed 3.487 coins, 3 may be comprised of three primary coins, and 0.478 may be comprised of four hundred and seventy-eight secondary coins/tokens. It should be understood that a coin transfer threshold may be set between the primary and secondary coin/token, for example anything less than 10 coins may be represented as the secondary currency. Alternatively, the two currencies may have a coin transfer threshold based on a monetary value, for example any value under $10,000 USD may be of the secondary token, and any value equivalent to or over $10,000 USD may be of the primary coin, to satisfy international money laundering laws.

[0057] Any transaction, or portion of a transaction which is less than the coin transfer threshold may cause a primary coin to be burned from the blockchain, and secondary token simultaneously created/issued. The recipient of the transaction may receive the secondary tokens, or any fungible portion. All trees associated with the primary coin may be transferred to a random tree bank. The random tree bank may be further defined as a group of trees which are not geotagged to any coin but are property of the system.

[0058] Transactions which take place in the secondary token may be automatically encrypted before being written on the blockchain, so that the public does not have access to either the amount exchanged or the parties involved. The secret keys to the transaction may be sent to the parties of the transactions, and the secret key to each transaction may be held in the wallets of the parties to a transaction. The system may further divide the transaction into multiple deposits over a random time period, as to further anonymize the transaction.

[0059] When a portion of a transaction using the secondary token exceeds the coin transfer threshold, that portion comprising the secondary token may be burned on the blockchain, while simultaneously a new primary coin may be created, issued, and registered. Trees from the random tree pool may be assigned to the new primary coin on the blockchain. Trees may be assigned randomly in portion or in whole and based in part or in whole on the preferred region selected by the user. The newly created primary coin may then be assigned to the transaction coin recipient, along with the related trees.

[0060] Since the secondary token does not require the movement of trees on the blockchain to transfer funds, the secondary token may be much more computationally simpler to manage on the blockchain. Further, the secondary token may be much less energy intensive, and faster than the primary coin to complete transactions. Coin miners and stakers validating transactions may utilize a SNARK for anonymous transactions. A zk-SNARK stands for "Zero-knowledge Succinct Non-Interactive Argument of Knowledge", Zero-knowledge proofs allow one party (the Prover) to prove to another (the Verifier) that a statement is true, without revealing any information beyond the validity of the statement itself.

[0061] The secondary token may utilize only the validation nodes operated by the land stakers, as to further lower energy consumption, wherein coin miners may not participate in either validations or computations. In turn, smaller transactions isolated within the secondary token may have lower transaction fees than transactions including the primary coin.

[0062] Other aspects, embodiments and features of the invention will become apparent from the following detailed description of the invention when considered in conjunction with the accompanying figures. The accompanying figures are for schematic purposes and are not intended to be drawn to scale. In the figures, each identical or substantially similar component that is illustrated in various figures is represented by a single numeral or notation at its initial drawing depiction. For purposes of clarity, not every component is labeled in every figure. Nor is every component of each embodiment of the invention shown where illustration is not necessary to allow those of ordinary skill in the art to understand the invention.

Brief Description of Drawings

[0063] The preceding summary, as well as the following detailed description of the

invention, will be better understood when read in conjunction with the attached drawings. For the purpose of illustrating the invention, presently preferred embodiments are shown in the drawings. It should be understood, however, that the invention is not limited to the precise arrangements and instrumentalities shown.

[0064] FIG. 1 is an embodiment of a flow chart which depicts the electronic financial system

[0065] FIG 2. Is an embodiment of a flow chart which depicts the interactions between primary coins and secondary tokens.

Detailed Description of Drawings

[0066] FIG. 1 begins with clean energy source **1**, which may be a number of accepted sources of electricity such as hydroelectricity, solar panels, geothermal, steam turbine, responsible nuclear, or carbon mitigating systems which may be fossil fuel based under limited circumstances. The proposed miner **2** is a natural person or company which wishes to use their computer power resources to be part of the financial system. Such computer power may be based on graphics processor units, computer processor units, hard drive space (proof of space) miner 3, proof of operating any kind of a node which may include a wireless receiver/transmitter, and may be with any type, addition, or combination.

[0067] The proposed miner 2 or 3 may be required to prove to an administrator 5, or a consensus of administrators 5, that the clean electrical energy source 1 is suitable for use on the financial system. If the administrator 5 or alternatively a group of administrators 5 cannot form a consensus, the result may be that the energy source cannot be used and there will be no established relationship, where the flowchart ends 6.

[0068] If the clean energy source **1** is approved by administrator **5**, then the administrator 5 may provide a password **7** which allows the prospective miner 2 or 3 to participate in mining/validating **15** for the financial system depicted in **FIG. 1**. Alternatively, an encryption key may be provided instead of a password **7**.

[0069] Duplicate blockchains 4 may be reproduced all over the world, to preserve the financial system data in the event of an electromagnetic pulse, nuclear war, or any other type of catastrophic event which may destroy portions of the primary blockchain 24.

[0070] Persons or entities may stake land 9 in exchange for operating a node in the financial

system, wherein the land staker 9 may receive transaction fees and/or being awarded carbon coins 25. The land may be graded by an administrator 8 or a consensus of administrators 8. The grading may be based on many variables previously discussed in this document. Land stakers may plant many different types of trees including teak farming 10, walnut farming 11, chestnut farming 12, cherry farming 13, and maple syrup farming 14.

[0071] Difficulty of mining **16** may increase or decrease by various means, including limiting production to a specific number of coins in a specific amount of time such as with Ethereum, or implementing a system which results in consecutive mining of coins more and more difficult by making the puzzle more difficult to solve, such as the case with Bitcoin. The difficulty level 16 increase may be permanent to facilitate the stability of the currency, or only permitted to be changed at a slow pre-determined rate to ensure the stability of the system. Hence, no single entity or group of entities may be permitted to "dump" new carbon coins 25 onto the market. Further, difficulty level 16 may be based on amount of loaned computer power to the network over time. For example and for greater clarity, any miner 2 who permitted and facilitated use and control by the financial system of an RTX 3090 GPU for one month may receive one carbon coin 25, however the difficulty level 16 may increase to the use and control of an RTX 3090 for one year for one carbon coin 25 as time goes on.

[0072] The registration rate **17** at which all active miners can produce, register, or be awarded carbon coins 25 may be limited by the administrators and/or the system. Limitations may be a throttled hash rate/processor speed, or an automatic invalidation of the password if a maximum hash rate/processor speed determined by the administrators hash rate/processor speed is exceeded by a particular carbon coin miner. The system may periodically send test commands to ensure a miner 2 claiming to loan an RTX 3090 is in fact loaning an RTX 3090. These hash rate/processor speed limitations may assist in reducing fraud in the system, in terms of a miner using "dirty" or unauthorized forms of electricity such as coal combustion. For example, if the prospective miner demonstrated access to 10 (ten) megawatts of geothermal energy, the system may calculate based on mining difficulty and average hash rates an estimation of the number of carbon coins that can be produced in a given time period using conventional computer technology, as well the amount of electricity the conventional computer technology is estimated to have consumed. The miner 2 may also be limited to registering coins calculated approximately to the preceding maximum hash rate/processor speed. This system may also mitigate or prevent a 51% attack on the consensus

system using quantum computers, super computers, or a large entity determined to corrupt the financial system. The difficulty level 18 at which coins are issued to all carbon coin miners 2 and 3, may be limited to maintain a positive rate of growth of the intrinsic value of every carbon coin. This limitation may be mathematically based, at least in portion, on the total economic value of the timber rights and carbon credits, where dilution of trees into new coins may be limited to maintain a positive rate of growth of the intrinsic value of each individual carbon coin.

[0073] After miner 2 or 3 has solved a mathematical puzzle or has been awarded a coin for loaning hash power, computer power, and/or storage space, miner 2 or 3 may proceed to register the coin on the blockchain 24, wherein the miner 2 or 3 may have to pay a registration fee 18 to an administrator 5, or some other entity. This registration fee 18 may be collected by various means including fiat currency, credit card, wire transfer, smart contract, or any of the common traditional means. The fee may also be paid with cryptocurrency, including the carbon coin 25.

[0074] The registration fee 18 or portion thereof may be used to contractually secure land 9 and timber rights, as well as the actual planting of a tree or a group of trees 20. The administrators 5 may preselect or determine the type of tree based on geographical location, current market prices, soil, environmental impact, or any other variable described in this document. The administrators 5 specific to particular legal jurisdictions may be responsible for securing rights in a particular jurisdiction or country. Administrators 5 may earn carbon coins for their work, which may be in the form of transaction fees or from the registration fee 18.

[0075] The geographical data, type of tree, date of planting, and any other relevant information may be embedded on the blockchain 24 and related to the specific carbon coin 25.

[0076] An algorithm may be defined as a set of rules for computers and people to follow. The system may be comprised of an algorithm 27 designed to keep coins at relatively the same value. The algorithm 27 may use as variables include the tree type, tree age, average growth rate, adverse conditions, geolocation, soil conditions, fertilizer applications, and weather conditions to determine the approximate amount of wood any particular tree, as well as the estimated market value of the tree based on local market conditions. Additionally, data such as physical measurements of the trees may be inputted 30. Other additional data such as wildfires, disease, drought, forest fires, and other unexpected losses or gains may be inputted 30 as data to be factored by the algorithm 27. The algorithm 27 may trade trees among coin holders to even out and/or average the carbon coin 25 economic values. The tree trades may be permanently embedded on the

blockchain 24. There may be carbon credits 21 issued by various governments in association with the trees. Carbon credits 21 may be sold to third parties such as petroleum companies or other heavy emitters, or carbon credits 21 may be retained for future increased value if permitted legally. For example, carbon credits 21 are legislated for a 500% increase in price by 2030 in Canada, due to carbon tax. The sale of the carbon credits 21 to fiat currency may be distributed by the algorithm 27 to equal the intrinsic value of each coin. Canadian carbon credits may be sold for Canadian dollars, and such dollars may be held in trust in a Canadian bank 22. Each calculated coin value may be displayed publicly 29. Predictions about the coins increase in value may be calculated by the algorithm 27, or by experts in the technical field who input 30 the data into the algorithm. Those predictions may also be displayed publicly 28. The predictions being publicly displayed 28 may result in a higher market value of the carbon coin 25 than the intrinsic current value, or a value greater than the registration fee 18 paid by the miner 2 or 3.

[0077] A coin holder may decide to burn 31 a carbon coin 25. The burning 31 of a carbon coin 25 may effectively remove the coin from the blockchain 24, preventing the further use or circulation. Ethereum 2.0 implements a coin burn 31 into its London Fork, to reduce the supply of Ethereum and thereby theoretically may cause the price of Ethereum (ETH) to rise.

[0078] A coin burn 31 may be an option in a cryptocurrency wallet, or an option made available to coin holders from the system. The coin burn 31 which removes one or more carbon coins from circulation, may also trigger the execution of a smart contract 32, wherein the system or an administrator 5 issues timber rights, carbon credits and/or fiat currency proceeds from carbon credits, to the former coin holder. Alternatively, a standard conventional contract may be used to replace or supplement a smart contract 32. The former coin holder may then be permitted to harvest the issued number of trees from the assigned tree region 33 at his/her leisure, or within a specific time frame. The geotags 40 of the corresponding trees in the region 33 to which timber rights are issued, may be unlinked from the burned carbon coin 25.

[0079] However, before the former coin holder is issued timber rights from the smart contract 32, the former coin holder may be required to contractually agree and swear that the trees shall not be used in a destructive manner, or in a manner which returns the carbon held within the trees to the atmosphere. Alternatively, a conventional contract may be used. For example, the trees may be prohibited from being intentionally burned. The trees may also be prohibited from being used as Christmas trees, unless the wood is subsequently used for a purpose which sequesters carbon 41.

Such process of sequestering carbon 41 may involve burying wood in a manner which does not permit decomposition. For example, saw dust may be blown or otherwise transferred into underground caverns which formerly contained petroleum. The former coin holder may be legally obligated to retain the sequestration of the carbon within the wood to the best of his/her ability, within reasonability. This may include home construction, renovation, use in art, furniture, and any other use which generally contributed to a long sequestration of the carbon within the wood. Activities which immediately release the carbon from the wood into the atmosphere may be contractually prohibited. The former coin holder may have to stamp the harvested wood with information 34 and further may have to register the harvested wood on the blockchain 24, before being paid or otherwise assigned the funds from the carbon credits 35.

[0080] Market fluctuations in timber value may be compensated for by a stability pool 26. The stability pool 26 may be defined as a group of unassigned trees that are not calculated in the market cap of the systems value, not displayed 29 as part of a carbon coin 25 value, and not assigned to any carbon coin 25. The algorithm 27 may add or remove trees from the stability pool 26 to carbon coins 25 to compensate for timber market fluctuations. As such, the stability pool 26 may serve as a buffer to provide a more stable intrinsic or market value of a carbon coin 25. However, if the timber market was to swing greater than the total value of the stability pool 25, then the value of the carbon coins 25 would start to fluctuate with more volatility.

[0081] Moving to FIG. 2, the primary coin 200 may not be dividable into partial coins. As such, any transaction or portion of a transaction may trigger one or more primary coins to be burned 201, and the trees associated with the coin ownership may be moved on the blockchain 24 or elsewhere to a random tree pool 203. Further, a quantity of the secondary token may be issued 202. For example, one (1) primary coin 200 may be burned 201 and one thousand (1000) secondary tokens 202 may be issued to the user. A cryptocurrency wallet 204 may display 205 the primary coin 200 on the left of the decimal 206, and the secondary token 202 on the right of the decimal 206. Thus, the two currencies combined appear in the cryptocurrency wallet 204 display 205 as a single cryptocurrency.

[0082] When a transaction or portion thereof is less than one whole primary coin 200, or any predetermined coin transaction threshold, a set number of secondary tokens 202 may be burned 201 on the blockchain, a new primary coin created 200, wherein some trees from the random tree pool 203 may be assigned to the new primary coin 200. For example and for greater clarity, one

thousand (1000) secondary tokens 202 may be burned 201 on the blockchain 24 and one (1) new primary coin 200 issued. Alternatively, the secondary token 202 may be dividable into partial tokens. Trees may then be re-assigned from the random tree pool 203 to the primary coin 200 by the algorithm 27.

[0083] Alternatively, or supplementary to planting trees, this author has also described in other documents a global macro algae industry for the production of biofuels and electricity. Live growing algae or inventory of biofuel may also be associated with carbon coins 25 on the blockchain, and carbon coins 25 may be financially backed by the economic value of the macroalgae or stored biofuel. Carbon coins 25 may be burned when macro algae are harvested or biofuels are consumed/transferred. Carbon coins 25 may be issued when new macroalgae cultivation structures are created, when macroalgae is planted, or when biofuel is created.

[0084] It will be understood that the invention may be embodied in other specific forms without departing from the spirit or central characteristics thereof. The present examples and embodiments, therefore, are to be considered in all respects as illustrative and not restrictive, and the invention is not to be limited to the details given herein.

Mass Communication System for Defeating Intelligence Agency Traffic Analysis

"All warfare is based on deception" – Sun Tzu

Background of Invention

Intelligence agencies such as the National Security Agency of the United States (NSA) have clearly demonstrated they do not intend to abide either by laws or ethics, seeking to intercept and analyze any and all electronic communication for their own tactical gain. Edward Snowden proved this unequivocally to the world with his leak of numerous classified documents from the NSA. Data encryption offers varying degrees of protection against communication interception, but most encrypted systems still allow surveillance traffic analysis of both specific targets and the mass surveillance of the entire communication system. Frequency of communication between targets, length/size of communication, as well as who is communicating with whom allows the identification of networks of people, as well as key people of those networks. In only one example, a target who communicates with many targets regularly, may be a leader/command post of a group who is distributing orders. If the intelligence agency identifies one target by physical means, the agency can then monitor who that target communicates with, as well as who those people in turn communicate with, and how often all these people communicate to each other.

The Onion Router (Tor) provides some protection against traffic analysis, by randomly hopping data connections through at least three computers operating as Tor nodes. This system works based

on volunteers who allow their computer to become a Tor node, transmitting/receiving both encrypted transit data and sometimes unencrypted exit data on an HTTP connection. On an HTTPS connection, data transmission is end-to-end encrypted, even on an unsecured wireless network. Each time data is transmitted from one computer to the next, a layer of encryption is decrypted which contains new routing instructions. One disadvantage with Tor is that anyone using Tor may become a surveillance target, as the general use of Tor is to conceal one's identity online. Also, Tor is notoriously slow, as well many systems block or otherwise require security credentials when a Tor exit node is detected. Covert agents using Tor as primary means of communication may stand out like sore thumbs.

Electronic communication is very difficult to hide. Radio direction finding has been used actively since the Second World War, in particular for locating German U-Boats. Infrared laser communication can be seen with image intensifiers in any type of fog or precipitation, and has the limitation of line-of-sight. Spread spectrum and frequency hopping radio transmissions are easily intercepted with modern equipment, where these forms of communication are better suited for the limitation of radio interference or jamming. Ultrasonic communication is limited in range and can be detected as well with transducers. Burst transmitters of any type carry the least likelihood of detection, since they transmit a large amount of pre-recorded information in a very short period of time/range to avoid detection, but this may be impractical for normal two-way communication. Quantum communication systems based on protons hold future promise as

they can detect interception, where China is now in a test phase with a quantum communication satellite. These systems are still impractical for common use,. someone using a quantum communication system may become an immediate physical surveillance target, which is a huge tactical disadvantage.

Therefore, there is a need for a system which effectively hides covert electronic communication amongst a large amount of redundant communication from numerous false targets, thereby making traffic analysis very difficult to impossible for an intelligence agency.

Detailed Description of Invention

Gambling and the excitement of prize winning is a common compulsion amongst people in general. Although many people may not enter a casino and play slot machines, they may rather enjoy frequently playing the lottery, bingo, entering contests, or participate in raffles and draws. Other people may play slot machines endlessly either online or in a casino, while other people are more interested in multiple player games such as poker.

To encourage people to download and participate unwittingly as false targets, the communication system may provide the user with a daily amount of gambling “chips”, which expire at the end of each day. These daily amounts cost the user no fee or charge, where the playing “chips” may be provided for simply becoming a user of the system. Furthermore, prizes may be won by random users of the chat program within the system, which would be

heavily promoted and again would encourage people to use the invention over WhatsApp or any other common instant messengers. Users may pay for additional chips and gamble their own money, but every person loves to win prizes for free and many people will often participate in such schemes. This concept is a well proven marketing system time and time over, where for one old example Publishers Clearing House ran as the foundation of their campaign for many years. People in general have given personal information time and time again for the chance to win free prizes, such as to be solicited with calls for gym memberships. As such, many people would subscribe to a free service which also gives the possibility of winning prizes. The higher the possibility of winning, generally the more people that will hear about this and subscribe.

Users that win may receive prizes from the organization that operates the system. Advertisers may advertise goods and services on the system for advertising fees. This money may be used to issue prizes to users, where the system is best established as a non-profit to maximize the effect. An organization operating the system may contribute its own money into the system, which would result in the issuance of more prizes, and encourage more users to create redundant traffic. The system may also seek anonymous donations for prizes.

To further mislead the intelligence agency's analysis, packets that contain no usable data which are henceforth referred to as Ghost Packets, may be transmitted to and from multiple user's devices to the connecting server.

Packets or groups of data may be standardized to one signal size/length in transmission, being comprised at least partially of dummy data. Large files such as pictures or PDFs may be divided up into multiple packets/chunks with timing delays implemented between sending the packets/chunks based on an algorithm between each packet sent, as to further disguise who is sending files to whom. Standardization of packet/data chunk size may serve to confuse an intelligence agency.

The system may employ an “onion peeling” similar to Tor - decryption of a single layer of encryption through a server to prevent an intelligence agency from matching packets of identical or similar data packets/chunks, which would allow them to determine who is communicating with whom. Multiple servers may be employed as well, where user devices may periodically hop connections from these multiple servers, and where a text message may be transmitted from sender Covert Agent A’s device to Server A, then transmitted from Server A to Server B, and finally transmitted from Server B to the intended recipient Covert Agent B. This way, two people communicating are not necessarily connected to the same server. The data between servers may be a constant stream of redundant encrypted data, which is a traditional form of Traffic Analysis Countermeasures. The actual communications may be hidden in the constant stream of dummy data or, for the sake of cutting down on overall data transmission, multiple Ghost Packets may be transmitted continuously between servers in addition to the standard traffic, to further disguise actual communication. In addition, Server A may transmit an almost

immediate dummy packet back to Covert Agent A, to appear as a response to a gambling decision.

Continuously alternating timing delays may be implemented in each server, based on a complex algorithm, so that it is difficult for an intelligence agency to determine who is communicating with whom. For example, if Target A continuously sends/receives transmissions within 100 milliseconds of Target B sending/receiving, the intelligence agency may deduce that Target A is communicating with Target B. However, if packet transmission changes from almost timing sync to a few seconds apart, the fact that Target A is communicating with Target B becomes much less obvious to an observer of the system traffic, especially if numerous other unrelated packets have been sent/received through the system in between.

Ghost Packets may be sent from Target A to the Server A based on a previous encrypted instruction sent from the server or an algorithm, but no near simultaneous Ghost Packet is sent to Target B from any server. This creates the illusion that Target A is not communicating with Target B, but rather someone else. To accomplish this, Ghost Packets may be immediately sent from a server using the random timing algorithm to Target C, even though Target C is not in any way communicating with Target A. This practice may create the illusion of communication between Target A and Target C, while camouflaging genuine communication between Target A and Target B.

Gambling communication packets/data chunks may appear to be encrypted text communication and vice versa, based on same data length and similar frequency of transmission. For example, an encrypted packet which indicates to the system whether a poker player wishes to check, raise, or fold, or rather pull a slot lever, may appear identical to a text packet transmission between users that are communicating. Also, text communication could be imbedded in the gambling instruction.

A setting on each mobile device app entitled “Auto-Play” may allow a user’s mobile device or personal computer to continue to gamble on the user’s behalf. Since the gambling “chips” may expire every 24 hours, a user may allow their mobile device to Auto-Play quite frequently under the possibility of winning money or prizes for nothing more than a small data expense. Auto-play may also allow Ghost Packets to be sent to and from the mobile device, as well as other random mobile devices set to Auto-Play. This may create an illusion of constant communication between mobile devices that does not exist. Many users in Auto-Play mode may create the illusion of false networks, while a person using Auto-Play may also communicate text messages hidden/encrypted within the gambling instructions.

The system may offer to users the games of Poker, Blackjack, slot machines, and other common casino games. The system may hide or assign a false identity to Poker Room users. A poker player’s name may be changed daily by the system. The amount of gambling chips the user possesses in total may not be displayed to other users, where only a portion of the person’s chips may be shown to

other users, such as what is “on the table” and “in play”. A player who loses all his/her chips may be transferred to a different poker room and allowed to reload from his/her remaining chips. A name change may occur between rooms. These practices may not only prevent traffic analysis from intelligence agency infiltration into poker rooms, but also prevent people playing teams in a poker room. Playing teams in poker gives an unfair advantage to the team, which is why casinos insist on English at the table, no text messaging, and especially no hand signals. A user may not be permitted to change poker rooms more than once a day, or search for “friends”. These tactical means may be explained to the poker players as to reasons behind the security issue. This may allow the system to establish a reputation of fairness within the gambling community, where typical online poker is completely corrupted by players working in teams.

The system may contain a standard text chat app, which also allows for the transmission of files, documents, and pictures. The system may require users create their own usernames, where these usernames may have no correlation to their actual names or phone numbers. These surnames may be transmitted to each other by alternative means to the system. When a document, picture, or file is sent, the system may divide the file into multiple components. The system may send the file to multiple mobile devices as Ghost Packets, however only the intended recipient may view the sent file. This may further confuse network traffic analysis as to who, the file was sent to.

An intelligence agency may attempt to target mobile phones that are not using voice communications, as this may indicate a device used by a covert agent. Covert agents may also/instead use desktop computers or tablet devices on various local networks, so voice calls become unnecessary. Or a covert agent may in turn, allow other trusted individuals to place regular phone calls to avoid being placed in the category of “no phone calls”. These calls should obviously not be to other mobile phones used by the covert network, but rather to business and other social calls that do not relate to the covert communication the device is used for. The covert agents may wish to turn on the GPS feature from time to time when the transmission of position wouldn't be dangerous, to not be placed in that category of a phone that never uses GPS. A covert agent should rotate phones as he/she allows other trusted people to use the phones for voice calls/generating random traffic, or simply use a mobile device on various publicly available networks.

An intelligence agency will work aggressively to find weaknesses in not only system concepts, but system programming. Even historically strong systems such as Apple IOS now have been proven to be hacked, but constant testing and attacking of ones own system should allow quick resolution of bugs and oversights. Offering $1M rewards to independent hacking teams or network analysis teams should be routine practice for a secure system. These type of rewards allow advantages taken by intelligence agencies to be corrected and filled quickly by bright independents.

The system should use higher bit depth, as well as hybrid encryption which multiplies algorithms of AES with Threefish (encryption layer inside encryption layer), using hash functions such as Skein. The NSA may have advanced attacks on AES which are completely unknown to other intelligence agencies, therefore allowing the NSA to promote the algorithm as rated for top secret, but decrypt communications by brute force when necessary to spy on other governments – using massive computer power combined with secret methods of cryptanalysis. Bruce Schneier's algorithms present challenges to the NSA that add an additional level of security, which to me I believe is why they do not promote his algorithms, and why his algorithms are not widely used. It is certainly not because of any published weaknesses. In a nutshell, I do not trust AES simply because of its wide adoption and promotion by the US government.

A communication system such as described may be the subject of media attention quickly, where its use as a covert communication system may become publicly known. This means the mental support of the people Is generally necessary for the system to succeed. For example, if this system was developed, funded, and used in the United States by Islamic terrorists, to which this became publicly known, most Americans would likely refuse to use the gambling app, knowing they are betraying their own country in exchange for prizes. On the other hand, drug producing countries that are home to wealthy cartels that provide jobs for many people that form a significant part of that country's GDP, would have an opportunity for the cartels to give back to the citizens in exchange

for communications cover. I'm certain in some countries, this may be widely supported.

However, these forms of communication systems may also become popular in countries that are subject to foreign intelligence monitoring, where a country's own government may fund such a system to allow its internal operatives to communicate free from monitoring by foreign intelligence agencies such as the NSA.

Physical Analysis of Seaweed Harvesting - Conventional Vessel vs. Grid Technology

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2021-10-31

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This document (2021-10-31, started 2021-02-23), is based on email discussion, calls and my previous work in Excel. It contains formulae, calculations and text.

The document has been authored in R markdown in an RStudio environment, the model calculations in python3 have been included via the reticulate library.

The model calculations are performed for values and, in general, uncertainties. The latter are assumed to be gaussian distributed. If a question about a specific value cannot be answered at the exactly, an estimate is used in the model. — # All units employed are in the SI system. # # - to preserve readability, the numbers of the text are not changed but rather re-calculated using the following factors: —

1 Configuration for Harvesting

1.1 Quantities Employed in Modelling the Harvesting configuration

We assume the harvested area forming a rectangle with side lengths $L_h > W_h$. The width W being an integer multiple of the conventional vessel width W_{cv} and is also the width which the grid harvester can efficiently harvest.

Quantity	Variable Symbol	Typical Value
Biomass density per water area	ρ_{sw}	$(12.5 \pm 2.5)\,\mathrm{kg/m^2}$
Area Harvested	A_h	$1.44 \times 10^4\,\mathrm{m^2}$
Mass of Seaweed Harvested	$M_{sw,h}$	$(1.8 \pm 0.4) \times 10^2\,\mathrm{t}$

Table 1: In the model employed quantities concerning the configuration for harvesting. Cited are *typical* values, all of which are implemented in the model calculation by variables and can easily be changed.

1.2 Sea Water Current

We assume an average current speed of up to 3kn (although there exist 10kn speeds in Canada. 1kn = 1.852km/h = 0.5144 m/s).

British Columbia Sea Water Current shows a table of sea water currents for British Columbia. Currents speed has magnitudes up to 3.1kn, corroborating above estimate. For a more representative analysis we will later extract a current distribution from the table and run the comparisons conventional / uncabled grid, conventional / cabled grid based on the distribution.

1.3 Sea Water Current Effect

Seawater currents change the effective path length covered by the vessel. Every current can be split up in a logitudinal component and a tranversal component. They have different effects:

- the longitudinal component cannot be eliminated. In case every length is covered equal times forward as backward, the effect however sums up to zero
- the transversal current component leads to an effective path length augmentation as illustrated in the following figure by two rectangular triangles (the transversal component can be eliminated by guiding the vessel along a cable - this is only viable for the later discussed grid harvester)

If the vessel didn't fight against the current, it would drift off the transversal length L_T while covering the longitudinal length L. By fighting against the current, it effectively covers L_T in the other direction. With v_T the transversal current velocity, the shown similarity of length- and velocity vectors allows to read off the relation from effective length L_{res} to vessel velocity v_{Ves} and effective velocity v_{res},

$$\frac{L_{res}}{L} = \frac{v_{Ves}}{v_{res}}$$

In the vector triangle it holds $v_{Ves}^2 = v_T^2 + v_{res}^2$ and thus

$$L_{res} = \frac{L}{\sqrt{1 - (v_T/v_{Ves})^2}}$$

So the effective path length can easily be calculated, provided vessel and transverse current velocities are known.

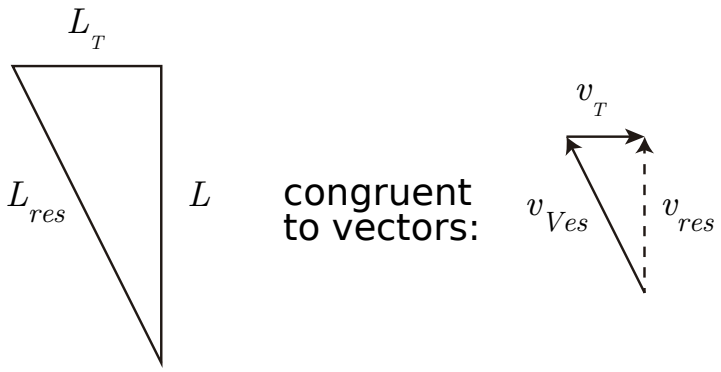

Figure 1: Geometrical Analysis of the Effect of Seawater Currents.

2 Model Output Variables

2.1 Energy needed

The essential difference between the two technologies lies in the transport of the harvested seaweed. For the start the transport energy costs are simply assumed proportional to transported mass M and covered distance D, so

- transport energy is expressed via a proportionality factor, $E_{tr} = c_{tr} \cdot M\ D$
- the resulting transport efficiency is then $\epsilon_{tr} = \frac{E_{tr}}{M\ D}$

(However, there exist differences between c_d values. Margins can be established by calculations with different solids.)

We do not include human energy in the comparison. It will be approximately identical for both technologies and harvesting could be performed in a (semi-)autonomous way.

3 Conventional Vessel Harvesting

3.1 Introduction

The following figure shows the conventional vessel harvesting system in elevation, while harvesting the seaweed field.

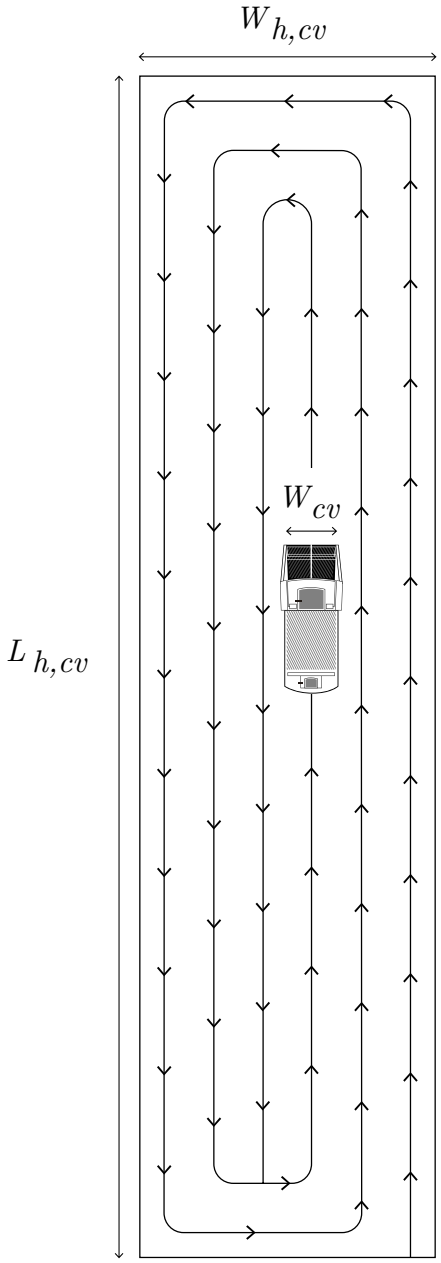

Figure 2: Conventional Harvester System harvesting the Seaweed Field (Elevation, Including the Vessel Path)

Mechanized seaweed harvesting watercraft may utilize a hydraulic crane to lift the seaweed onto the vessel (photo), or a cutting mechanism coupled with a conveyor (photo). The collected biomass of a conventional mechanized seaweed harvester is stored in a holding area, where the collected amount is being constantly moved as the vessel collects algae.

3.2 Conventional Harvesting Configuration

Quantity	Variable Symbol	Typical Value
Harvesting Area Width	$W_{h,cv}$	60 m
Harvesting Area Length	$L_{h,cv}$	240 m
Traveling Distance	$\lvert L_{\mathcal{P}} \rvert$	1431 m

Table 2: By the model predicted quantities concerning conventional vessel harvesting.

3.3 Quantities Employed in Modelling Conventional Vessel Harvesting

Quantity	Variable Symbol	Typical Value
Conventional Vessel Mass	M_{cv}	100 t
Maximum Load Mass	M_l	200 t
Conventional Vessel Width	M_{cv}	10 m
Conventional Vessel Speed	v	3 kn (we should allow up to 6 kn when fighting current)

Table 3: In the model employed quantities concerning conventional vessel harvesting. Cited are *typical* values, all of which are implemented in the model calculation by variables and can easily be changed. Idling will be taken into account only later.

3.4 Calculations

- the vessel transports a load mass M_L of sea weed
- the entire harvested mass is $M_{sw,h}$
- the vessel travels at a speed of $v = 3\,\text{kn}$
- it has a empty mass of M_{cv}

3.4.1 Conventional Harvesting in a Spiral

The vessel harvests $M_{sw,h}$ in a spiral as was shown in figure 2.

The lap distance is W_{cv} , adjusted to the straight parts of the laps, as those form the major part. In the turns however, the lap becomes wider - up to $\sqrt{2}W_{cv} \approx 1.4W_{cv}$ when the harvester is in diagonal orientation. And thus, some area is left unharvested. Figure 3 illustrates the evaluation, introducing the turn radius $R = W_{cv}$.

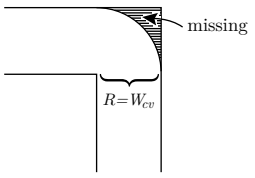

Figure 3: Evaluation of the area left unharvested by the conventional harvester

The missed area in one 90° turn is

$$A_{-} = R^2 - \frac{R^2\pi}{4} = (1 - \frac{\pi}{4})R^2$$

With 10 the number of 90° turns (4 of them inner turns), the totally missed area is

$$A_{miss} = (1 - \frac{\pi}{4}) \cdot 10\ W_{cv}^2 = (10 - 2.5\pi) W_{cv}^2$$

3.4.2 Energy consumed

- rectangle area $W_{h,cv} \cdot L_{h,cv}$ with width of conventional vessel $W_{cv} = 2 \cdot W_{hh}$
- path length $L_P = A_h / W_{cv} + (W_h - W_{cv})$. The first term in the sum results from the harvesting moves whereas the second from the manouevring turns. The latter are modelled as rectangular, they start at field horizontal coordinate $W_{cv}/2$ and end at $W - W_{cv}/2$.
- energy costs for moving the vessel: simply proportional to mass and distance as explained above
  - assuming the load mass constant, $M_L = M_{sw,h}/2$ gives a result identical to integrating up $M_L = 0$ to $M_{sw,h}$

They amount to $(2.72 \pm 0.26) \times 10^8$,(arbitrary units)

- Harvesting efficiency:

With $M_{sw,h}$ the mass of seaweed harvested and $E_{dr,Ves}$ the energy cost of vessel dragging, the efficiency is

$$\epsilon = \frac{M_{sw,h}}{E_{dr,cv}}$$

Its reciprocal value has a simple form

$$\frac{1}{\epsilon} = c_{tr}\ L_P (\frac{M_{cv}}{M_{sw,h}} + \frac{1}{2})$$

4 Grid Harvesting

4.1 Introduction

The grid harvester is comprised of three components - the harvesting head, the transport hose, and the primary vessel. The vessel moves along a fixed cable for movement and stability, which has become a common and efficient system for short range passenger ferries [ref].

The harvesting head moves in a straight line motion relative to the vessel (see figures - *update top view!*), and the primary vessel utilizes hydraulic pumps to transport the cut algae mass and some ocean water through the transport hose to the primary vessel. The vessel only moves forward after the competition of one harvesting lap, thus the majority of both the collected seaweed and the vessel move infrequently.

The drone will move in a straight line, following a grid pattern. In the turns there are two possibilities:

1. simple turns. To enable them, the drone will not go to the field end, so this leaves some parts unharvested. The majority of them could be harvested during the next harvest by displacing the laps; however never completely. Also the very first and last laps will not be displaced, so the second and but-last are ~50% redundant
2. in a lawn-mower fashion:

- harvest until the field end
- go back to enable a 90° turn
- having turned, harvest until the center between the following backward lap and the next forward lap
- go back to enable a further 90° turn
- having turned, harvest the backward lap

The two 90° turns together form a strict semi-cycle. Fig. 4 shows the grid harvesting system in elevation, including the path of the harvesting head.

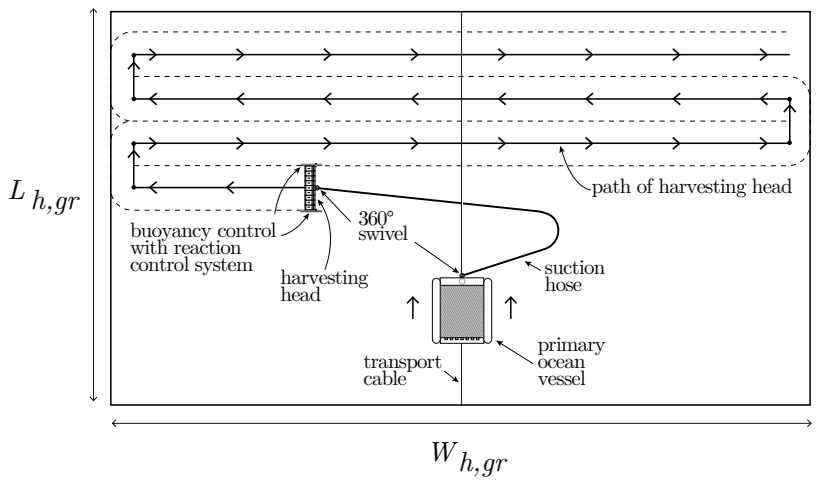

Figure 4: Grid Harvester System harvesting the Seaweed Field (Elevation, Including the Path of the Harvesting Head)

Fig. 5 shows a side view of the grid harvesting system.

When the primary vessel is fully loaded, another ship meets, takes the harvest and transports it to the refinery. For this it uses propulsion by a sky sail, so the consumed energy is not taken into account in this analysis.

4.2 Grid Harvesting Configuration

4.3 Quantities Employed in Modelling Grid Harvesting

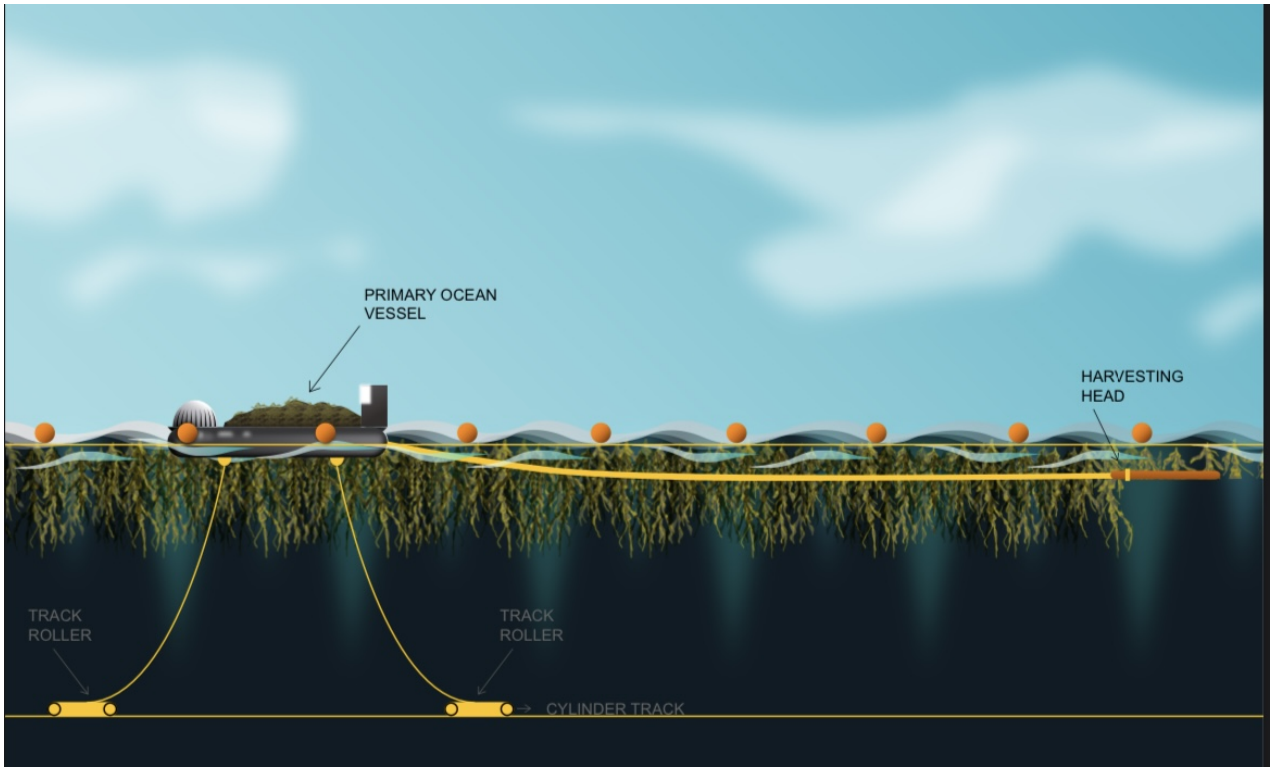

Figure 5: Grid Harvester Side View

Quantity	Variable Symbol	Typical Value
Harvesting Area Width containing Seaweed	$W_{h,gr}$	160 m
Harvesting Area Length	$L_{h,gr}$	90.0 m

Table 4: Predicted quantities concerning the grid harvesting configuration.

4.4 Calculations

4.4.1 Turns Going Forward versus Stationary Turns

A lawn mower can turn only while going forward, the drone however could also turn while staying in place.

For both kinds of turns we calculate

1. the not harvested area in a simple turn
2. the area harvested twice when employing a "lawn mower move", LMM as follows:

- before the turn: harvest up to the field end, then head back to enable the turn
- after the turn: harvest again to the field end, then follow the new main direction

4.4.1.1 Turns Going Forward . Including two LMMs gives 100% efficiency. The path length $|L_P|$ is augmented by $2 \cdot 2W_{hh}$ per lap[1], or per 180° turn.

- excluding LMMs, the missed area per 180° turn is

$$A_0 = \frac{(2W_{hh})^2 - \pi W_{hh}^2}{2} = 2R^2(4-\pi) \approx 1.72R^2$$

- including LMMs, the area harvested twice per 180° turn is

$$A_2 = W_{hh} \cdot 2W_{hh} - A_0 = [8 - 2 \cdot (4-\pi)] \cdot R^2 \approx 6.28R^2$$

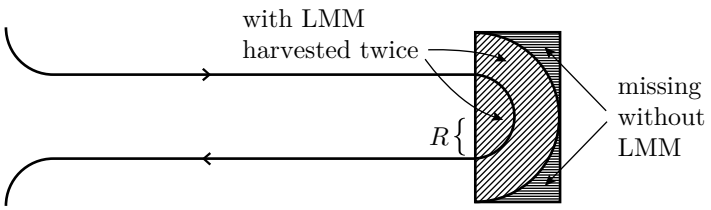

Figure 6: Turns While Going Forward, Optionally Including Two Lawn Mower Moves (LMM). Indicated is the Unharvested Surface when not Including them as Well as the Surface Harvested Twice when Including them.

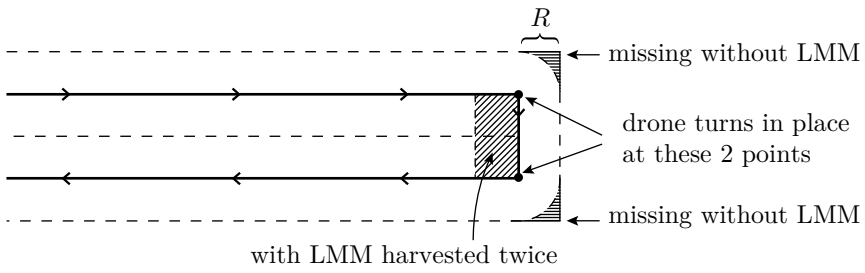

Figure 7: Stationary Turns, Optionally Including Two Lawn Mower Moves (LMM). Indicated is the Unharvested Surface when not Including them as Well as the Surface Harvested Twice when Including them.

Quantity	Variable Symbol	Typical Value
Primary Vessel Mass	M_{pv}	100 t
Primary Vessel Width	W_{pv}	0 m
Primary Vessel Speed	v_{pv}	3 kn, up to 6 kn when fighting a current
Maximum Load Mass	M_L	200 t
Harvesting Head Mass	M_{hh}	(12.5 ± 2.5) t
Harvesting Head Width	W_{hh}	10 m
Harvesting Head Speed	v_{hh}	3 kn, up to 6 kn when fighting a current
Diameter of Hose	D_{ho}	8.6"
Length of Hose	L_{ho}	82.5, 88 m
Mass of the Hose	M_{ho}	(289 ± 8) kg ((308 ± 9))kg when excluding (including) LMMs *Beach Harvesting: 350 kg/100 m* *so assume here: 300 kg for the pure hose* *+50kg for alu cables*
Linear Mass Density of the Hose	ρ_{ho}	
Volume Rate of the Water Flowing	R_{H_20}	4 gal/min at 300m
Speed of the Sea Weed Flowing	v_{sw}	$300m/(5s)$ at hose length of 300m =water speed
Mass Rate of the Sea Weed Flowing	R_{sw}	$(5.5 \pm 0.5)t/h$ at 100 m hose length

Table 5: In the model employed quantities concerning grid harvesting. Cited are *typical* values, all of which are implemented in the model calculation by variables and can easily be changed.

4.4.1.2 Stationary Turns .

- excluding LMMs, the missed area per 90° turn (one half of the diagonally shaded area in the figure) is

$$\frac{(2R)^2 - \pi R^2}{4} = R^2 \cdot (1 - \pi/4)$$

  So the missed area per 180° turn is

$$A_0 = R^2(2 - \pi/2) \approx 0.43R^2$$

- including LMMs, the area harvested twice per 180° turn is

$$A_2 = \frac{W_{hh}^2}{2} = 2R^2$$

Stationary turns give much better results:

1. the missed areas are more than a factor of 4 smaller
2. the areas harvested twice are more than a factor of 3 smaller

So we perform the further energy efficiency analysis only with stationary turns. Without rounded turns, the path is as for conventinal harvesting, but vertical/horizontal dimensions interchanged.

4.4.2 Energy Consumed

4.4.2.1 Harvesting Head Energy costs for moving the drone, hose, primary vessel in the ocean as well as seaweed and water in the hose are simply assumed proportional to moved mass and covered length as before. The distance covered by the harvesting head can be read off above figures (per lap, not yet including the push forward):

- including the lawn mower move :

$$D_{hh} = W_{h,gr} - W_{hh} + 2W_{hh} = W_{h,gr} + W_{hh}$$

[1] this is also correct for start- and end lap: the start lap begins with a half turn adding $2W_{hh}$; the first half of the full turn to go into second lap is also accounted for the first lap and so on. And inversely for the end lap

- excluding the lawn mower move :

$$D_{hh} = W_{h,gr} - W_{hh}$$

in this case, the left over seaweed could be harvested in the next harvest, by displacing the laps by $W_{hh}/2$. Usually, essentially all of the in the first harvest left over seaweed will be harvested (however, there's the risk of a storm occuring between the two harvesting procedures which destroys the seaweed).

The numerical distance is 150 m (190 m) when excluding (including) the LMMs.

- the energy needed for one lap and and one push forward of the harvesting head by W_{hh} amounts to $(2.0 \pm 0.4) \times 10^6$ J ($(2.5 \pm 0.5) \times 10^6$ J) when excluding (including) the lawn mower moves

4.4.2.2 Hose

- distance covered in one lap by an element of the hose: we simply assume each hose element going from one extremal position (LHS, say) to the next extremal position (RHS) following the shortest possible path. In reality the floating hose makes some curves and this assumption cannot be perfectly fulfilled - we cover this effect by including an uncertainty of 10%. Under the assumption of homogeneous distribution of the curves over the field width, the average travelled distance is half the distance covered by the harvesting head:

When including the LMMs, the extremal positions are only $W_{hh}/2$ further to the left and to the right. Thus the average distance is (75 ± 8) m ((80 ± 8) m) when excluding (including) LMMs.

The push forward of the hose adds some 2‰ (in both cases[2]) and can be perfectly neglected.

- the energy needed for one lap is $(2.25 \pm 0.23) \times 10^4$ m ($(2.55 \pm 0.26) \times 10^4$ m) when excluding (including) LMMs

4.4.2.3 Vessel The primary vessel (and only the primary vessel) is tracted by a cable which gives almost perfect (~99%) mechanical efficiency [reference]. Propeller efficiencies are ~60% [reference]. At the moment we have no absolute energy numbers yet, so the correction is quantified simply by multiplying The vessel transport energy with a factor 60%/99% .

Again assuming the load mass constant, $M_L = M_{sw,h}/2$ gives a result identical to integrating up $M_L = 0...M_{sw,h}$. The energy needed for moving the primary vessel W_{hh} forward amounts to $(1.15 \pm 0.15) \times 10^6$ (arbitrary units)

4.4.2.4 Pumping The energy needed for pumping is $(1.49 \pm 0.30) \times 10^7$ ($(1.58 \pm 0.32) \times 10^7$) in arbitrary units when excluding (including) LMMs.

4.4.3 Energy Contributions for All Laps

- the number of laps is 9 *(this should be an integer)*
- primary vessel needs (1.04+/-0.13)e+07 (arbitrary units)
- the harvesting head consumes $(1.8 \pm 0.4) \times 10^7$ ($(2.2 \pm 0.5) \times 10^7$) arbitrary units of energy when excluding (including) LMMs
- the hose needs $(2.02 \pm 0.21) \times 10^5$ ($(2.30 \pm 0.24) \times 10^5$) arbitrary units of energy when excluding (including) LMMs
- pumping needs $(1.49 \pm 0.30) \times 10^7$ ($(1.58 \pm 0.32) \times 10^7$) arbitrary units of energy when excluding (including) LMMs

The total consumed energy in arbitrary units when excluding (including) LMMs is then $(4.2 \pm 0.5) \times 10^7$ ($(4.8 \pm 0.6) \times 10^7$)

So including LMMs needs more energy than excluding them by a factor of 1.131 ± 0.013.

4.4.4 Won harvest including LMMs

The total seaweed mass excluding (including) LMMs [kg] is `(1.75+/-0.35)e+05` (`(1.8+/-0.4)e+05`).

The mass factor including LMMs/excluding LMMs amounts to `1.028` (or excluding LMMs/including LMMs to `0.973`).

So including LMMs, 2.8% are won.

[2] for example, without LMM we have $\sqrt{(150m)^2 + (10m)^2}/(150m) \approx 1.002$

4.4.5 Conclusion

- omitting the lawn mower moves looses (only) 2.8% of the seaweed
- performing them gets all weed, but costs 11% more energy. So that's rather not worth it
- displacing in the following harvest the laps by half of their width performs two laps which are only half filled (but pick up the previously left over 2.8%). There are 8 laps, so this costs 1/8 more energy ~17%. This is +8% when averaged over the two harvests: almost as inefficient as the LMMs

So it is most efficient to let the 2.8% sink to the ground.

4.5 Results

4.6 Travel Distances

for head and hose excluding (including) LMMs

Quantity	Variable / Calculation	Typical Value
Primary Vessel Travel Distance	$L_{h,gr}$	90.0 m
Harvesting Head Travel Distance	$N_{gr} \cdot L_{hh}$	1350, 1710m
Average Hose Element Travel Distance	$N_{gr} \cdot L_{ho}$	742.5, 792m

Table 6: By the grid harvesting model predicted quantities.

4.7 Energy efficiency CV vs grid (optionally LMMs)

The following table compares conventional harvest with grid harvest excluding and including LMMs, quoting energy in 1000 arbitrary units, kAU.

Technology	Harvested Area	Harvested Seaweed Mass	Harvest Energy	Harvest Mass per Energy
Conventional	$1.44 \times 10^4\,\mathrm{m}^2$	$(1.8 \pm 0.4) \times 10^2\,\mathrm{t}$	$(2.72 \pm 0.26) \times 10^5\,\mathrm{kAU}$	$(0.66 \pm 0.07)\,\mathrm{kg/kAU}$
Grid Excl. LMMs	$1.4013 \times 10^4\,\mathrm{m}^2$	$(175 \pm 35)\,\mathrm{t}$	$(4.2 \pm 0.5) \times 10^4\,\mathrm{kAU}$	$(4.2 \pm 0.6)\,\mathrm{kg/kAU}$
Grid Incl. LMMs	$1.44 \times 10^4\,\mathrm{m}^2$	$(1.8 \pm 0.4) \times 10^2\,\mathrm{t}$	$(4.8 \pm 0.6) \times 10^4\,\mathrm{kAU}$	$(3.8 \pm 0.6)\,\mathrm{kg/kAU}$

Table 7: Results for seaweed density $\rho_{SW} = (12.5 \pm 2.5)\mathrm{kg/m}^2$

So the harvesting efficiency factor excluding LMMs / including LMMs is 1.101 ± 0.012 .

The energy factor including LMMs / excluding LMMs was already cited above as 1.131 ± 0.013 .

- excluding the LMMs looses 2.8% of harvest (see above) but saves 11% of energy - in total, the energy efficiency augments by 8.2% (see directly above).
- there are 8 laps. Recovering the lost 2.8% in the next harvest needs one more lap then, thus 17% more energy (or 8% more when averaged over the two harvests). Best is to leave the 2.8%

4.8 Energy CV vs grid

The energy factor conventional harvesting over grid harvesting excluding (including) LMMs amounts to 6.5 ± 0.6 (5.7 ± 0.5).

This factor has somewhat augmented by the more detailed turn analysis which led to shorter grid laps, and it has more augmented by the cable transport.

Grid Field Width Optimization

For identical field area, the grid width is varied. This engenders a variation of grid length and hose length, and (holding all other parameters constant) finally of the gain factor consumed harvesting energy conventional/grid. The conventional harvesting parameters are also held constant.

Grid Width	Grid Length	Hose Length	Consumed Harvesting Energy Conventional/Grid
240 m	60.0 m	126.5 m	5.4+/-0.4
205.71429 m	70.0 m	107.6428571 m	5.6+/-0.4
180 m	80.0 m	93.5 m	5.6+/-0.4
160 m	90.0 m	82.5 m	5.6+/-0.4
140 m	100.0 m	73.7 m	5.6+/-0.4
130.90909 m	110.0 m	66.5 m	5.5+/-0.4
120 m	120.0 m	60.5 m	5.5+/-0.4

The optimum is similar to the first optimizations, but comprises an even larger range: Gain is best for grid lengths of 70 m to 100 m.

The following table shows the energy consumptions [J] of individual system parts for the optimum value and its neighbors for one harvesting lap, and also the needed number of laps:

Grid Length	Drone	Hose	Primary Vessel	Pumping	Laps
70.0 m	(2.6+/-0.5)e+06	(4.2+/-0.4)e+04	(1.90±0.18)×10^6	(1.9+/-0.4)e+07	7
80.0 m	(2.2+/-0.5)e+06	(3.23+/-0.30)e+04	(1.90±0.18)×10^6	(1.68+/-0.34)e+07	8
90.0 m	(2.0+/-0.4)e+06	(2.55+/-0.24)e+04	(1.90±0.18)×10^6	(1.49+/-0.30)e+07	9
100.0 m	(1.8+/-0.4)e+06	(2.06+/-0.19)e+04	(1.90±0.18)×10^6	(1.33+/-0.27)e+07	10
110.0 m	(1.64+/-0.33)e+06	(1.70+/-0.16)e+04	(1.90±0.18)×10^6	(1.20+/-0.24)e+07	11

They give the following sums [J] over all laps:

Grid Length	Drone	Hose	Primary Vessel	Pumping	Total
70.0 m	(1.8+/-0.4)e+07	(2.95+/-0.28)e+05	(1.33+/-0.13)e+07	(1.9+/-0.4)e+07	(4.9+/-0.6)e+07
80.0 m	(1.8+/-0.4)e+07	(2.58+/-0.24)e+05	(1.52+/-0.14)e+07	(1.68+/-0.34)e+07	(4.8+/-0.6)e+07
90.0 m	(1.8+/-0.4)e+07	(2.29+/-0.21)e+05	(1.71+/-0.16)e+07	(1.49+/-0.30)e+07	(4.8+/-0.6)e+07
100.0 m	(1.8+/-0.4)e+07	(2.06+/-0.19)e+05	(1.90+/-0.18)e+07	(1.33+/-0.27)e+07	(4.8+/-0.6)e+07
110.0 m	(1.8+/-0.4)e+07	(1.87+/-0.17)e+05	(2.09+/-0.20)e+07	(1.20+/-0.24)e+07	(4.9+/-0.6)e+07

For identical area, the absolute drone movement length clearly is identical. So the optimum results from rather subtle comparisons primary vessel movement vs. hose movement and pumping! Still, this analysis bases on grid dimensions, not harvesting system dimensions - it can easily be repeated when having updated system dimensions.

Above table furnishes somewhat more information than the very first table of efficiency factors (due to rounding effects): The grid length of 100 m gives somewhat worse performance. The grid lengths 80 m and 90 m still give identical results within uncertainties. A length of 80 m has been used so far; but 90 m lead to a shorter, thus cheaper hose - so I adopted that length, we can discuss.

4.9 Further Transport

Being harvested, the seaweed is transported to a refinery. Most efficient would be a floating refinery, but for now we assume further transport by a distance $D_+ = 2\,\mathrm{km}$.

- in conventional harvesting, it is performed by the conventional harvesting vessel itself
- in grid harvesting, the primary vessel meets another ship with similar mass, the seaweed is transshipped and the other ship transports it to the refinery (the transshipping energy costs are neglected for now)

So the energy costs are identical for the two technologies

$$E_+ = c_{tr} \cdot (M_{cv} + M_{sw,h})\ D_+$$

and amount to $(5.6 \pm 0.7) \times 10^8$ (arbitrary units).

Still they change the *factor* of consumed energy, which (assumed no LMMs) is lowered to 1.382 ± 0.014.

To avoid this effect, a kite sail is used for the further transport. Wind energy is freely available and not accounted for.

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February 11, 2022

Mr. Jonathan BILY
19567 Fraser Highway
Langley, BC

Via email:

On this date a polygraph examination was administered on Mr. Jonathan BILY.

During the pre-test portion of the polygraph examination Mr. BILY read and signed the following statement.

Statement of Mr. Jonathan Bily *Date: _____*

1. On the morning of September 22, 2021, I was conversing with Dr. Maura O'Neil and others in a UC Berkeley Blockchain class. After the class was over, I sent the faculty a flowchart of an advanced cryptocurrency concept called Carbonite.

2. In the morning of September 23, 2021, Facebook informed me my account was logged into by using a password reset code sent to my iCloud email address. I had nothing to do with this hack, where the hackers requested the reset from Vietnam and then logged in through a Washington state IP address.

3. Some days later to which I do not know, the password reset email sent from Facebook appears to have disappeared from the iCloud server and disappeared from the Time Machine external backup. I did not delete these.

4. On October 4, 2021, my car was struck by a 58 year old Hispanic man travelling the wrong way down the road at a fast speed, and his vehicle deflected off my vehicle like a hockey puck. The witness behind me Chuck, told me the Hispanic man didn't brake or swerve.

5. On November 4, 2021, I was pulled over on the side of highway one heading westbound. I witnessed a black SUV half on the shoulder and on a collision course with my body, where I ran as fast as I could and the SUV swerved back into the lane.

6. On December 2. 2021, I arrived in the parking lot of 19567 Fraser Highway with my silver BMW. The driver of a dark blue Dodge Ram 1500 full throttled his vehicle directly at me in the parking lot, but when I jumped to respond he hard cornered to the right and sped off.

Signed: _____ *Date:* _____
Jonathan Bily

Witnessed: _____ *Date:* _____
Dennis Paulson

These were the relevant questions asked during the polygraph examination.

1) IS THE STATEMENT YOU SIGNED TODAY A LIE IN ANY WAY?

2) IS THE STATEMENT YOU SIGNED TODAY UNTRUE IN ANY WAY?

3) IS THE STATEMENT YOU SIGNED TODAY FALSE IN ANY WAY?

The examinee answered “NO” to each of these questions.

Based on the results obtained during the examination the examiner formed the opinion that there was no deception indicated when Jonathan BILY answered questions 1, 2 and 3.

Mr. BILY was very cooperative during the pre-test conversation, polygraph examination and post-test conversation. Mr. BILY is adamant about his truthfulness in these matters and in his determination to prove his honesty. The results of these polygraph examinations prove his truthfulness overall.

The original signed statement was retained by Mr. BILY for his records.

A standard DLCT exam was conducted as directed by the CPC. Limestone Technologies equipment was used to obtain the polygraph results.

Dennis Paulson
LorDen Polygraph Services
GST No: 76388 5944